

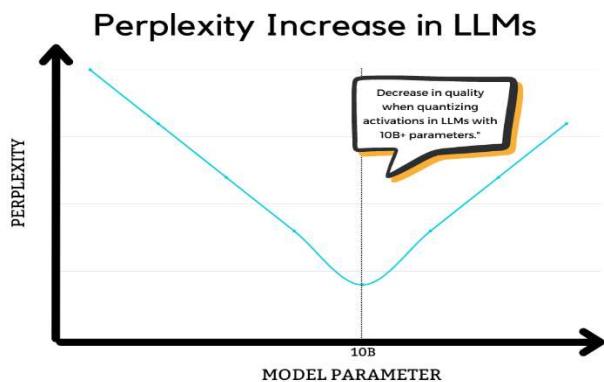
# Disruptive Tech

## Monthly AI Update

### Small Language Models and On-Device AI: An Emerging Trend

Large Language Models (LLMs) have become a significant focus in artificial intelligence, with their potential impact spanning various domains. As we witness the creation of increasingly larger LLMs, there's an equally exciting narrative unfolding: the rise of small LLMs (SLMs). These compact AI powerhouses are designed to operate on modest hardware, such as personal computers and mobile devices like phones. The future of SLMs is not just promising but truly electrifying, offering a kaleidoscope of possibilities and applications that could redefine our interaction with technology. SLMs are not just scaling down size but also scaling up possibilities. They're poised to become the invisible yet indispensable allies in our daily lives, enhancing everything from kitchen appliances to personal gadgets. Imagine a future where your toaster can offer weather updates, your refrigerator can suggest recipes based on its contents, and your TV can curate content based on your mood. A team from Singapore is leading this effort, with researchers Peiyuan Zhang, Guangtao Zeng, Tianduo Wang, and Wei Lu, from the StatNLP Research Group at Singapore University of Technology and Design contributing to the project. The project, called TinyLlama, aims to pre-train a 1.1 billion parameter LLM on 3 trillion tokens.

#### LLMs Get Increasingly “Confused” When Parameter Size Increases



Source: Intro-act, [tinyml.substack.com](https://tinyml.substack.com)

To achieve this, the team adopted the same architecture and tokenizer as the larger Llama model, making it compatible with many open-source projects built on it. Another key characteristic is their ability to adapt to external knowledge bases and to specific requirements while keeping the number of trainable parameters relatively low. This is achieved through techniques like low-rank adaptation (LoRA) or quantization. **Microsoft** is often touted as the pioneer in the field of small LLMs. It recently unveiled Phi-3 Vision, an open multimodal model that stands out from its predecessors in the Phi-3 family by seamlessly integrating language and visual inputs. With a context length of 128K tokens, this model can handle complex interactions and support nuanced decision-making. Its offline capabilities, cost-effectiveness, and user privacy features make it an attractive option for devices. Some time back, **Google** released Gemini, a state-of-the-art LLM with the capability to handle multimodal data. What was more surprising was the release of a Nano version of Gemini, available in two tiers (Nano 1 with 1.8 billion parameters and Nano 2 with 3.25 billion parameters) for low- and high-memory devices. The Nano version is supposed to be integrated into Google's Pixel 8 Pro smartphone, effectively turning it into an AI-enhanced device. In a nutshell, the future of small LLMs is limitless, redefining our world and making technology more personal, intuitive, and responsive.

### INDUSTRY TRENDS

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**Als are coming for social networks.** So far, generative AI has been mostly confined to chatbots like ChatGPT. Startups like Character.AI and Replika are seeing early traction by making chatbots more like companions. But what happens when you dump a bunch of AI characters into something that looks like Instagram and let them talk to each other? That's the idea behind Butterflies, one of the most provocative — and, at times, unsettling — takes on social media that we've seen in quite a while. [Read more.](#) (*The Verge*)

**Decagon's "human-like" AI agent aims to transform enterprise customer support.** In the AI customer support chatbot space, we see more flashy demos than companies that can truly win the trust of an enterprise company," Jesse Zhang, Decagon's chief executive and co-founder, tells *VentureBeat*. It's a bold statement for a startup just emerging from stealth and entering a market that has become increasingly crowded. [Read more.](#) (*VentureBeat*)

**OpenVLA is an open-source generalist robotics model.** Foundation models have made great advances in robotics, enabling the creation of vision-language-action (VLA) models that generalize to objects, scenes, and tasks beyond their training data. However, the adoption of these models has been limited due to their closed nature and the lack of best practices for deploying and adapting them to new environments. To address these challenges, researchers from Stanford University, UC Berkeley, Toyota Research Institute, Google DeepMind, and other labs have introduced OpenVLA, an open-source VLA model trained on a diverse collection of real-world robot demonstrations. [Read more.](#) (*VentureBeat*)

**Apple Developer Academy adds AI training for students and alumni.** Apple is continuing its AI push, this time with its education offering. The company announced that it will train all Apple Developer Academy students and mentors on the fundamentals of AI. Apple Developer Academy alumni can also take part in the training. Starting this fall, students will learn how to build, train and deploy machine learning models across Apple devices. [Read more.](#) (*TechCrunch*)

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#### Apple Developer Academy in AI



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Source: *Intro-act, AI News*

**Perplexity AI searches for users in Japan, via SoftBank deal.** After announcing a strategic partnership with SoftBank in April, Perplexity — the AI search engine that has ambitions to take on Google — is now using the deal to expand its user base, and data touchpoints, in SoftBank's home market of Japan. SoftBank and two of its mobile

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operations, Y!mobile (SoftBank's mobile phone operator) and LINEMO (SoftBank's low-cost mobile network carrier), plan to offer free, one-year subscriptions to Perplexity's premium tier, Perplexity Pro, starting June 19. [Read more.](#) (*TechCrunch*)

**Runway's new video-generating AI, Gen-3, offers improved controls.** The race to high-quality, AI-generated videos is heating up. Runway, a company building generative AI tools geared toward film and image content creators, unveiled Gen-3 Alpha. The company's latest AI model generates video clips from text descriptions and still images. Runway says the model delivers a "major" improvement in generation speed and fidelity over Runway's previous flagship video model, Gen-2, as well as fine-grained controls over the structure, style and motion of the videos that it creates. [Read more.](#) (*TechCrunch*)

### The Race to High-Quality, AI-Generated Videos Is Heating Up



Source: *Intro-act, Tech Crunch, Runway*

**How much does ChatGPT cost?** Everything you need to know about OpenAI's pricing plans. OpenAI's AI-powered chatbot platform ChatGPT keeps expanding with new features. It now offers a store — the GPT Store — for AI-powered applications and services. The recently introduced memories feature lets you save preferences so that chats are more tailored to you. And soon, ChatGPT will gain an upgraded voice mode, letting you interact with the platform more or less in real time. [Read more.](#) (*TechCrunch*)

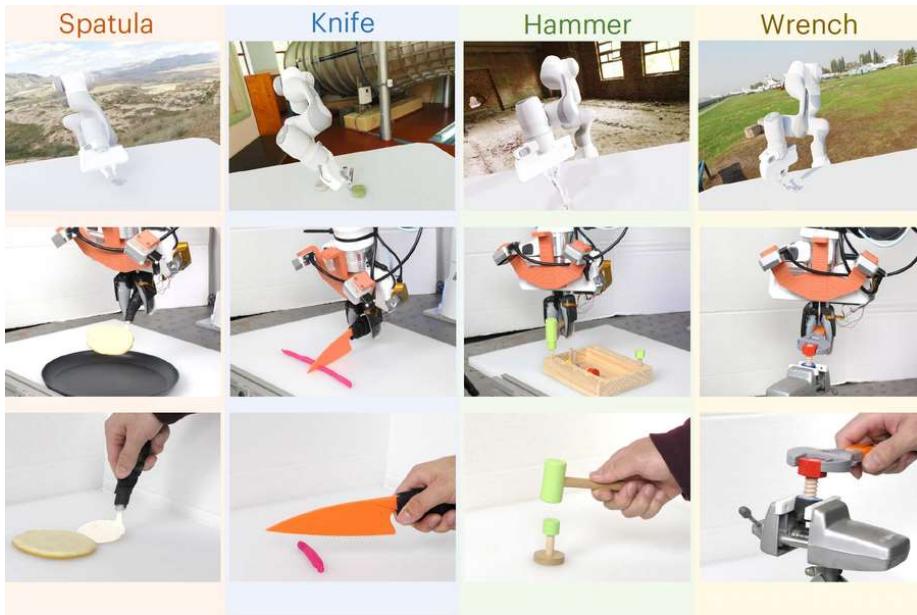
**AI is the sixth great revolution in filmmaking.** The first motion picture in human history was filmed almost 148 years ago to the date by a famous photographer and convicted killer named Eadweard Muybridge on June 19th, 1878, in Palo Alto, California. It featured a jockey riding a horse — as viewers of Jordan Peele's modern horror film *Nope* will recall — part of an effort by his client Leland Stanford of Stanford University to settle the intense debate at the time over whether horses naturally galloped with all four hooves leaving the ground, or whether they always had at least one hoof down (the former is true). [Read more.](#) (*VentureBeat*)

**Google Gemini proves a better health coach than humans.** Google Gemini is just 6 months old, but it has already shown impressive capabilities across security, coding, debugging and other areas (of course, it has exhibited serious limitations, too). Now, the large language model (LLM) is outperforming humans when it comes to sleep and fitness advice. Researchers at Google have introduced the Personal Health Large Language Model (PH-LLM), a version of Gemini fine-tuned to understand and reason on time-series personal health data from wearables such as smartwatches and heart rate monitors. [Read more.](#) (*VentureBeat*)

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**Generative AI takes robots a step closer to general purpose.** Most coverage of humanoid robotics has understandably focused on hardware design. Given the frequency with which their developers toss around the phrase “general purpose humanoids,” more attention ought to be paid to the first bit. After decades of single-purpose systems, the jump to more generalized systems will be a big one. We’re just not there yet. The push to produce a robotic intelligence that can fully leverage the wide breadth of movements opened by bipedal humanoid design has been a key topic for researchers. [Read more.](#) (TechCrunch)

### Developing Robots Using Generative AI



Source: Intro-act, Tech Crunch, MIT

**As Google targets AI search Ads, it could learn a lot from Bing.** For years Paula Thompson, vice president of client strategy at the US digital ad agency Optimal, has been helping Plunge sell baths to soak in chilling water by buying ads on Google search and Microsoft Bing. The ads appear atop results for searches such as “ice bath” and invite users to “Buy our cold plunge today” or “Experience the cold plunge difference.” Now, she is trying a new approach. [Read more.](#) (WIRED)

**Tempus rises 9% on the first day of trading, demonstrating investor appetite for a HealthTech company with a promise of AI.** Tempus, a genomic testing and data analysis company started by Eric Lefkofsky, who previously founded Groupon, debuted on Nasdaq, rising about 15% on the opening. The company priced its IPO at \$37 apiece, at the top of its \$35 to \$37 price range, raising nearly \$411 million at a fully diluted valuation of over \$6 billion. Tempus’ last official private valuation was \$8.1 billion, however, and PitchBook data estimates that the company was valued at \$10.25 billion in late 2022. Shares closed the first day of trading at \$40.25, up nearly 9% from the IPO price. [Read more.](#) (TechCrunch)

**Spotify announces an in-house creative agency, tests generative AI voiceover ads.** Spotify announced that it’s venturing further into the ad space with its first in-house creative agency called Creative Lab, helping brands create custom marketing campaigns. It will also begin testing generative AI ads, the company said. The launch of Creative Lab shows that Spotify is ramping up its efforts to attract advertisers to the platform. This could likely be an attractive offering for marketers, as they’ll be able to reach Spotify’s 615 million listeners. [Read more.](#) (TechCrunch)

**Tesla shareholders sue Musk for starting competing AI company.** Tesla shareholders are suing CEO Elon Musk and members of the automaker’s board of directors over Musk’s decision to start xAI (which they say is a competing

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AI company), and then divert talent and resources from Tesla to the new startup. The lawsuit is one of the most direct challenges to Musk's decision to start xAI, and it comes on the heels of his threat to develop AI outside of Tesla unless he is awarded more voting control over the company. [Read more.. \(TechCrunch\)](#)

**Google's AI summaries are coming for the news industry.** Google's AI summaries are coming for the news industry. We don't know exactly how often AI Overviews will appear in Search, but early observations point to trouble for publishers. A Press Gazette experiment found that AI Overviews appeared on nearly a quarter of top news-related Google searches, pushing down organic results. Some publishers are bracing for their Google traffic to trickle to zero. Others say it's already happened. [Read more.. \(The Verge\)](#)

**MLPerf 4.0 training results show up to 80% in AI performance gains.** Innovation in machine learning and AI training continues to accelerate, even as more complex generative AI workloads come online. MLCommons released the MLPerf 4.0 training benchmark, once again showing record levels of performance. The MLPerf training benchmark is a vendor neutral standard that enjoys broad industry participation. The MLPerf Training suite measures performance of full AI training systems across a range of workloads. [Read more.. \(VentureBeat\)](#)

**How AI and LLMs are revolutionizing cyber insurance.** Solving the widening cybersecurity insurance gap that drives businesses away from purchasing or renewing policies needs to start with risk assessments based on AI-driven real-time insights. Cyber insurers are focused on helping clients reduce the probability of a breach by continually improving and augmenting cybersecurity strategies. [Read more.. \(VentureBeat\)](#)

**How AI-driven identity attacks are defining the new “threatscape.”** Attackers are weaponizing AI to misdirect elections, defraud current exchanges and nations of millions and attack critical infrastructure. These adversaries include nation-state attackers and cybercrime gangs that rely on AI to create and launch increasingly sophisticated identity attacks to finance their operations. [Read more.. \(VentureBeat\)](#)

**Writer launches no-code platform and framework for custom enterprise AI applications.** Writer, the full-stack generative AI platform for enterprises, announced a major expansion of its offerings with the launch of a suite of developer tools called AI Studio, and the Writer Framework, a new tool that enables companies to rapidly build and deploy custom generative AI applications. The company also unveiled new API endpoints and acquired Streamsync, a platform for building real-time applications, which will now be integrated into the Writer Framework. [Read more.. \(VentureBeat\)](#)

**Google's new startup program focuses on bringing AI to public infrastructure.** Google's newest startup program, aims to bring AI technology to the public sector. The newly launched “Google for Startups AI Academy: American Infrastructure” will offer participants hands-on training from AI experts and other support for companies solving problems in areas like agriculture, energy, education, public safety, healthcare, telecommunications, transportation, urban development, and more. [Read more.. \(TechCrunch\)](#)

**AMD unveils CPU, NPU and GPU strategy for AI data centers.** Advanced Micro Devices CEO Lisa Su talked about her company's chip architecture strategy for AI data centers and AI PCs at the Computex trade show in Taiwan. She spelled out AMD's plans for its central processing unit (CPU), neural processing unit (NPU) and graphics processing unit (GPU) architectures powering end-to-end AI infrastructure from the data center to PCs. AMD unveiled an expanded AMD Instinct accelerator roadmap, introducing an annual cadence of leadership AI accelerators, and previewed the new AMD Instinct MI325X accelerator, planned to be available in Q4 2024. [Read more.. \(VentureBeat\)](#)

**SAP adds Amazon Bedrock to its AI Core to boost enterprise gen AI adoption.** Enterprise application software maker SAP is deepening its relationship with Amazon Web Services through new AI-centric integrations. The first involves its AI Core platform: SAP is adding support for the Amazon Bedrock AI development service, creating opportunities for companies, especially those in regulated industries, to experiment with generative AI. In addition, SAP is announcing that it's doubling down on AWS chips to power its infrastructure. [Read more.. \(VentureBeat\)](#)

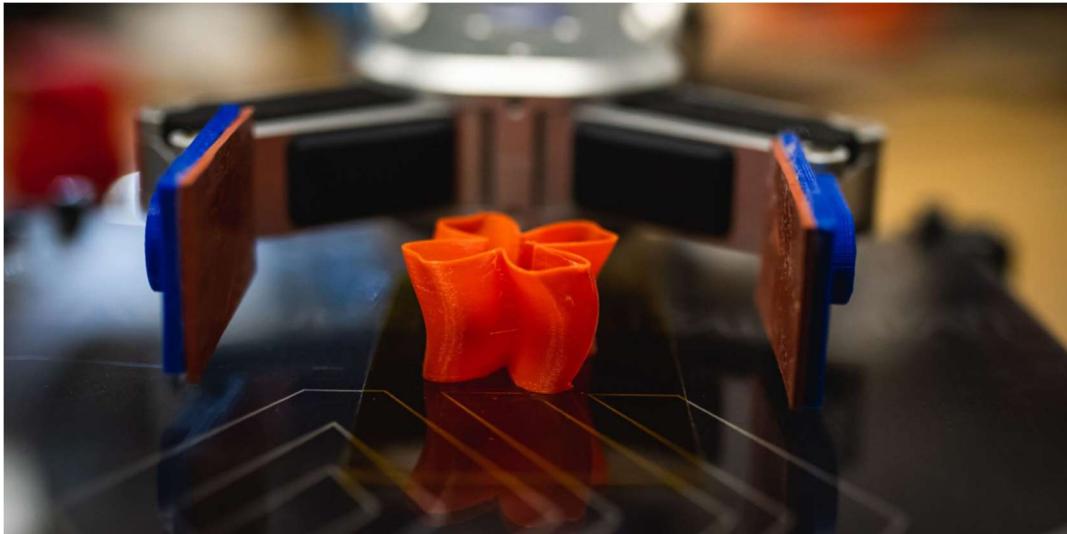
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**AI-Driven 3D Printing Robot Enhances US Army Research.** Researchers at Boston University have developed a robotic system that autonomously prints, tests, and analyzes small plastic structures. The aim is to discover the most efficient energy-absorbing shape. This robot, named MAMA BEAR, employs 3D printing and Bayesian optimization to iteratively refine each design. Each printed structure is crushed and measured for energy absorption, with data recorded for further optimization. [Read more.](#) *(3D Printing)*

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### The Crushing Claw of MAMA BEAR



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Source: *Intro-act, 3DPrinting, Boston University*

**Anthropic hires former OpenAI safety lead to head up new team.** Jan Leike, a leading AI researcher who earlier this month resigned from OpenAI before publicly criticizing the company's approach to AI safety, has joined OpenAI rival Anthropic to lead a new "superalignment" team. A source familiar with the matter tells TechCrunch that Leike will report directly to Jared Kaplan, Anthropic's chief science officer, and those Anthropic researchers currently working on scalable oversight — techniques to control large-scale AI's behavior in predictable and desirable. [Read more.](#) *(TechCrunch)*

**GitHub Accelerator fuels open-source AI revolution, empowering startups to democratize access.** GitHub has officially launched its 2024 Accelerator program, aiming to support and promote open-source projects that are reshaping the technology landscape. The program, designed to provide financial backing, mentorship, and community-building opportunities, is already generating significant buzz among developers and enterprises alike. Stormy Peters, GitHub's VP of Communities, emphasized the importance of the initiative in an exclusive interview with VentureBeat. [Read more.](#) *(VentureBeat)*

**4 ways Microsoft's Copilot+ PCs will reshape enterprise computing.** The era of the AI PC, or rather, the Copilot+ PC, has arrived. Microsoft introduced its vision of what personal computing will look like in this artificial intelligence-filled world. "We're entering this new era where computers not only understand us but can anticipate what we want and our intents," chief executive Satya Nadella remarked while explaining the platform shift starts with Microsoft Copilot. [Read more.](#) *(VentureBeat)*

**Patronus AI is off to a magical start as LLM governance tool gains traction.** These days, every company is trying to figure out if their large language models are compliant with whichever rules they deem important, and with legal or regulatory requirements. If you're in a regulated industry, the need is even more acute. Perhaps that's why Patronus AI is finding early success in the marketplace. The company that helps customers make sure the models

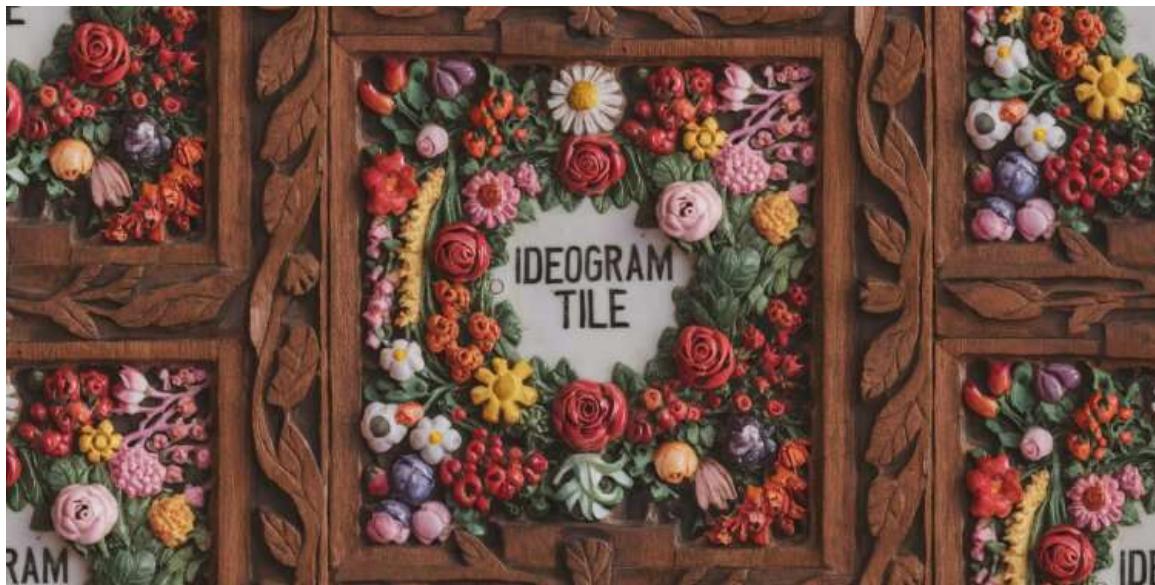
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are compliant on a number of dimensions, announced a \$17 million Series A, just eight months after announcing a \$3 million seed round. [Read more.](#) (*TechCrunch*)

### DEVELOPMENTS IN AI

**Ideogram Tile brings AI-generated patterns to the masses.** Ideogram, the fast-growing artificial intelligence startup known for its advanced text-to-image generation capabilities, announced a significant addition to its platform: Ideogram Tile. This new feature allows users to create seamless, repeating patterns from a single text prompt, opening up a world of possibilities for designers, artists, and businesses alike. With Ideogram Tile, users can generate intricate wallpapers, immersive landscapes, and endless textures by simply describing their vision in natural language. [Read more.](#) (*VentureBeat*)

#### AI-Generated Patterns by Ideogram



Source: *Intro-act, Venture Beat, Ideogram*

**Inworld AI launches Inworld Voice to generate game character voices.** Inworld AI, an AI and games startup that raised \$50 million on a \$500 million valuation last year, has launched Inworld Voice, a new AI voice generator. Inworld Voice delivers dynamic voice experiences for game makers looking for expressive, cost-efficient and high-quality voices. Inworld said the product features a diverse portfolio of 58 voices (at launch), powered by AI models that add depth and realism through improved latency, rhythm, intonation and pitch variation. [Read more.](#) (*VentureBeat*)

**Google DeepMind's new AI tool uses video pixels and text prompts to generate soundtracks.** Google DeepMind has taken the wraps off a new AI tool for generating video soundtracks. In addition to using a text prompt to generate audio, DeepMind's tool also considers the contents of the video. By combining the two, DeepMind says users can use the tool to create scenes with "a drama score, realistic sound effects or dialogue that matches the characters and tone of a video." You can see some of the examples posted on DeepMind's website — and they sound pretty good. [Read more.](#) (*The Verge*)

**Cohere launches open weights, multilingual AI model Aya 23.** Cohere for AI (C4AI), the nonprofit research arm of Canadian enterprise AI startup Cohere, announced the open weights release of Aya 23, a new family of state-of-the-art multilingual language models. The models are available in 8B and 35B parameter variants (parameters refer to the strength of connections between artificial neurons in an AI model, with more generally denoting a more powerful and capable model). [Read more.](#) (*VentureBeat*)

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An AI video tool just launched, and it's already copying Disney's IP. AI startup Luma posted a series of videos created using its new video-generating tool, Dream Machine, which the company describes as a "highly scalable and efficient transformer model trained directly on videos." The only problem? At about 57 seconds in, the Dream Machine-generated trailer for Monster Camp — an animated story about furry creatures journeying to a sleepaway camp — features a slightly AI-smudged but still recognizable Mike Wazowski from Pixar's Monsters, Inc. [Read more. \(The Verge\)](#)

Genspark is the latest attempt at an AI-powered search engine. Move over, Perplexity. There's a new AI-powered search engine in town — and its creators think it can best the many, many other attempts out there. Called Genspark, the platform taps generative AI to write custom summaries in response to search queries. Type in a search like, "What's the best baby formula for newborns?" and Genspark will generate a Sparkpage: a single-page overview pieced together from websites and content around the web. [Read more. \(TechCrunch\)](#)

### AI-Powered Search Engine



Source: *Intro-act, Tech Crunch, Genspark*

**ElevenLabs's new open-source tool can add sound effects to any video.** Weeks after AI voice startup ElevenLabs launched its Sound Effects text-to-sound AI offering, the company is releasing an open-source tool to showcase its potential. In "about 15 seconds," this application enables creators to generate sound effect samples for their videos, analyzing the imported clip and providing multiple options. While developers can access the app's code on GitHub, ElevenLabs has published a website for the public to try out its Sound Effects API. [Read more. \(VentureBeat\)](#)

**Meet Maxim, an end-to-end evaluation platform to solve AI quality issues.** Enterprises are bullish on the prospects of generative AI. They are investing billions of dollars in the space and building various applications (from chatbots to search tools) targeting different use cases. Almost every major enterprise has some gen AI play in the works. However, committing to AI and actually deploying it to production are two very different things. [Read more. \(VentureBeat\)](#)

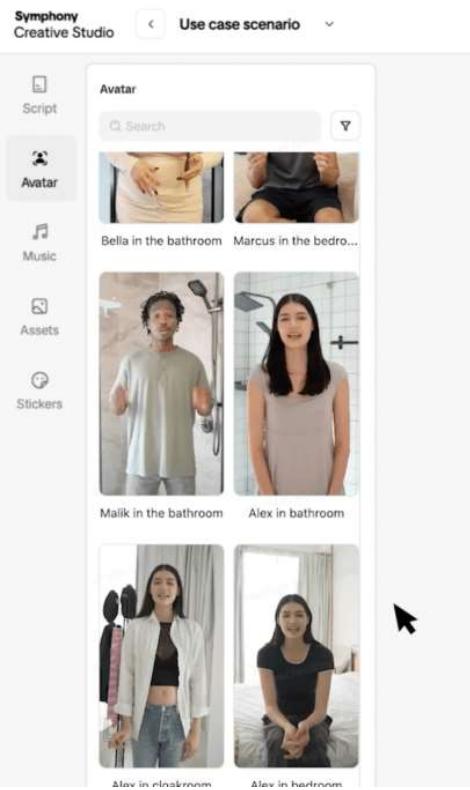
**Meta releases flurry of new AI models for audio, text, watermarking.** Meta's Fundamental AI Research (FAIR) team, is releasing several new AI models and tools for researchers to use. They are centered on audio generation, text-to-vision, and watermarking. "By publicly sharing our early research work, we hope to inspire iterations and ultimately help advance AI in a responsible way," the company said in a press release. [Read more. \(VentureBeat\)](#)

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**Penguin Solutions expands OriginAI Solution to accelerate AI factory deployment and optimize performance.** Penguin Solutions™, an SGH™ brand (Nasdaq: SGH) that designs, builds, deploys and manages AI and accelerated computing infrastructures at scale, announced the expansion of its OriginAI® solution to include validated, pre-defined AI architectures incorporating NVIDIA technology. Penguin's OriginAI solution includes validated architectures backed by intelligent cluster management software and expert services that enable companies to rapidly deploy AI infrastructure at scale. [Read more..](#) (*VentureBeat*)

**TikTok ads will now include AI avatars of creators and stock actors.** TikTok announced that it's introducing generative AI avatars of creators and stock actors for branded content and ads on its platform. The company is also launching an "AI Dubbing" tool for creators and brands to expand the reach of their ads and branded content. The new "Custom Avatars" are designed to represent a creator or a brand spokesperson. Creators can choose to scale their likeness to create multilingual avatars to expand their global reach and brand collaborations, TikTok says. [Read more..](#) (*TechCrunch*)

### AI Avatars of Creators and Stock Actors



Source: *Intro-act, Tech Crunch, TikTok*

**Google brings Gemini mobile app to India with support for 9 Indian languages.** Google has released its dedicated AI mobile app Gemini in India — over four months after its debut in the U.S. — with support for nine Indian languages alongside English. The nine Indian languages include: Hindi, Bengali, Gujarati, Kannada, Malayalam, Marathi, Tamil, Telugu and Urdu. This app lets users in the country type or talk in any of the supported languages to receive AI assistance. [Read more..](#) (*TechCrunch*)

**Apple embraces open-source AI with 20 Core ML models on Hugging Face platform.** Apple has made a significant stride in its efforts to empower developers with cutting-edge on-device AI capabilities. The tech giant recently released 20 new Core ML models and 4 datasets on Hugging Face, a leading community platform for sharing

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AI models and code. This move underscores Apple's commitment to advancing AI while prioritizing user privacy and efficiency. [Read more.](#) (VentureBeat)

**Applied Intuition new AI helps autonomous vehicles navigate off-road.** Vehicle software provider Applied Intuition has developed a new technology stack to help self-driving vehicles maneuver safely across complex unstructured terrain. This solution can be run on production hardware by those in the automotive, trucking, construction, mining, agriculture and defense industries. This off-road autonomy offering provides simultaneous localization and mapping, perception and object tracking, sensor fusion and calibration, and safety planning and controls. [Read more.](#) (VentureBeat)

**Oracle APEX receives AI infusion to help build enterprise apps.** Oracle's low-code development platform is being infused with artificial intelligence to make building enterprise applications faster and easier through natural language. The first is an APEX AI Assistant that enables developers to create valid SQL statements, freeing them from routine coding tasks. Secondly, a new Create App Assistant creates application blueprints and allows developers to focus their energy on features instead of underlying code. [Read more.](#) (VentureBeat)

**The Pixelbot 3000 turns simple AI prompts into Lego mosaic masterpieces.** A devoted YouTuber has designed and built a Lego printer that can automate the process of assembling elaborate brick-built mosaics, similar to Lego's art sets like da Vinci's Mona Lisa or Hokusai's The Great Wave. But while the creation draws inspiration from another Lego printer called the Bricasso, it streamlines the process using AI. Although technically impressive when it debuted eight years ago, Jason Allemann's Bricasso required a complicated process where mosaic designs had to be manually created, printed on paper, and then scanned by the machine's camera. [Read more.](#) (The Verge)

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### This Lego-Built Printer Can Save You the Hassle of Painstakingly Creating Your Own Lego Pixel Art



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Source: Intro-act, Tech Crunch, YouTube

**Microsoft delays broad release of Recall AI feature due to security concerns.** Microsoft announced that it is delaying the broad release of its Recall artificial intelligence feature for Copilot+ PCs. Recall, which was originally slated to be widely available to Copilot+ PC users, will now first be released as a preview to members of the Windows Insider Program in the coming weeks. The decision to push back the general availability of Recall stems from Microsoft's desire to gather additional feedback and ensure the feature meets the company's stringent security and quality standards before rolling it out to all users. [Read more.](#) (VentureBeat)

**Niloom.AI launches one-stop generative AI content creation platform for spatial computing.** Niloom.ai has launched the beta test for its generative AI content creation platform for spatial computing. Niloom.ai is a

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comprehensive platform that harnesses GenAI within the spatial computing ecosystem to create, prototype, edit, and instantly publish sophisticated AR/VR content at a fraction of the time and cost, said Niloom.ai CEO Amir Baradaran, in an interview with Gamesbeat. Niloom.ai is a streamlined software-as-a-service (SaaS) solution that consolidates the entire creative process from ideation and development to testing, collaborating and publishing. [Read more](#) (Venture Beat)

### Niloom.ai Uses GenAI for Prompt to Generative Voice



Source: Intro-act, Venture Beat, Niloom.Ai

**Nvidia's "Nemotron-4 340B" model redefines synthetic data generation, rivals GPT-4.** Nvidia has solidified its position as a leader in AI innovation with the release of "Nemotron-4 340B," a groundbreaking family of open models that is set to revolutionize the generation of synthetic data for training large language models (LLMs). This development marks a significant milestone in the AI industry, as it empowers businesses across various sectors to create powerful, domain-specific LLMs without the need for extensive and costly real-world datasets. [Read more](#). (VentureBeat)

**Brave integrates its own search results with its Leo AI assistant.** Privacy-focused search engine and Web browser company Brave Software is integrating search results into its Leo chatbot. Search results are based on the Brave Search API and Leo is integrated into the browser. The company said that this integration will help users find more up-to-date information. People can use this integration to fetch information like the latest scores, pull more context related to the topic while reading an article, and search recent and relevant stories to create social media posts. [Read more](#). (TechCrunch)

**LinkedIn leans on AI to do the work of job hunting.** The zeitgeist in technology is all about artificial intelligence, and in an effort to drive more users and usage, LinkedIn is catering to the AI trend. It took the wraps off a raft of new services powered by AI. The company is betting big on AI and people's appetite to see it threaded through experiences on the platform and is bringing out yet more tools using generative AI, to get things done on the site. New features include using more natural prompts to look for jobs or suitable candidates, and then providing generative AI tools to help people take the next step. [Read more](#). (TechCrunch)

**Former Meta engineers launch Jace AI that works independently.** Zeta Labs, a London-based startup founded by former Meta engineers Fryderyk Wiatrowski and Peter Albert, announced the launch of Jace, an LLM-powered agent that can execute in-browser actions on command. The company also announced it has raised \$2.9 million in a pre-seed round of funding, led by Y Combinator's former head of AI Daniel Gross and former GitHub CEO Nat Friedman. While AI agents have been in the news lately (Cognition's Devin being the most popular one), Zeta claims its offering

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doesn't need any guidance and can save users from sitting in front of their computers telling the system what to do. [Read more.](#) (*VentureBeat*)

### An AI-Generated Robot Sitting in Front of a Computer, Responding to Customer Service Tickets



Source: *Intro-act, Venture Beat*

**This humanoid robot can drive cars — sort of.** Is the key to autonomous cars that don't run over pedestrians and crash into telephone poles a humanoid robot behind the wheel? A group of researchers at the University of Tokyo thinks so, and they lay out their argument in a newly published technical paper. The researchers, one of whom consults for Toyota, developed and trained a "musculoskeletal humanoid" called Musashi to drive a small electric car through a test track. Equipped with two cameras standing in for human eyes, Musashi can "see" the road in front of it as well as the views reflected in the car's side mirrors. [Read more.](#) (*TechCrunch*)

**Luma AI debuts "Dream Machine" for realistic video generation, heating up AI media race.** Luma AI, a San Francisco artificial intelligence startup, announced the release of Dream Machine, a powerful new AI system capable of generating high-quality videos from simple text descriptions. The technology opens the door for a wide range of creators and companies to produce original video content at unprecedented speed and scale. [Read more.](#) (*VentureBeat*)

**Stability AI brings new size to image generation with Stable Diffusion Medium.** Bigger isn't always better, especially when it comes to running generative AI models on commodity hardware. This is a lesson that Stability AI is taking to heart, with its release of Stable Diffusion 3 medium. Stable Diffusion is Stability AI's flagship model providing text to image generation capabilities. [Read more.](#) (*VentureBeat*)

**Apple's PCC an ambitious attempt at AI privacy revolution.** Apple introduced a groundbreaking new service called Private Cloud Compute (PCC), designed specifically for secure and private AI processing in the Cloud. PCC represents a generational leap in Cloud security, extending the industry-leading privacy and security of Apple devices.. With custom Apple Silicon, a hardened operating system, and unprecedented transparency measures, PCC sets a new standard for protecting user data in Cloud AI services. [Read more.](#) (*VentureBeat*)

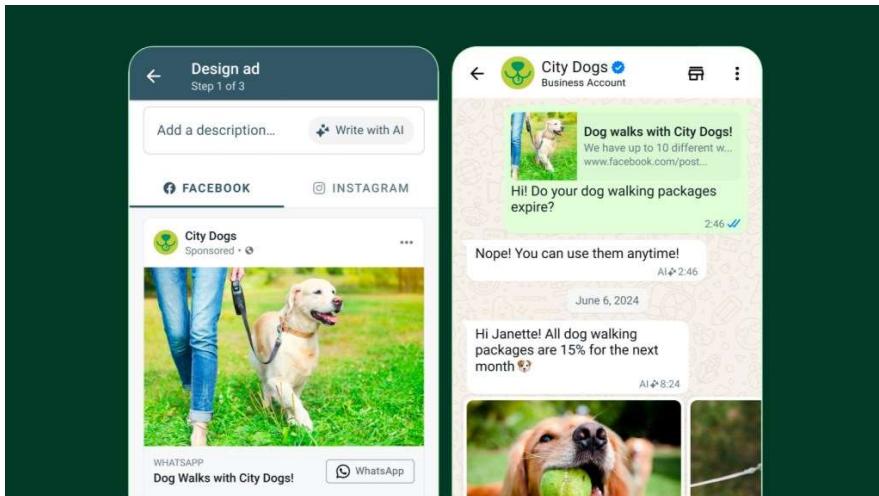
**Tomato.ai launches zero-shot accent softening model to revolutionize call center industry.** Tomato.ai, a startup co-founded by CEO Ofer Ronen and CTO James Fan, has unveiled a zero-shot machine learning model designed to soften accents in real-time for call center agents. The company recently raised \$10 million in funding, and has now

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added an extension to their seed funding of \$2.1M+ from existing investors Cardumen Capital and Recursive Ventures, as well as new investor, Gaingels. [Read more. \(VentureBeat\)](#)

**Meta adds AI-powered features to WhatsApp Business app.** Last year, during the Q3 2023 earnings call, Mark Zuckerberg talked about leveraging AI to have business accounts respond to customers for purchase and support queries. Meta has now announced AI-powered features for WhatsApp Business apps, such as helping with the creation of click-to-WhatsApp ads and generating responses to frequent customer messages. Zuckerberg announced these tools at the company's Meta Conversations conference in Brazil. [Read more. \(TechCrunch\)](#)

### Meta adds AI-powered features to WhatsApp Business App



Source: *Intro-act, Tech Crunch, WhatsApp*

**Asana's AI Teammates are intelligent coworkers to help optimize workflows.** Work management platform Asana is debuting AI bots designed to aid collaboration and accelerate productivity. Available in beta, these so-called "AI teammates" are customizable, power workflows, and have the agency take action when needed to get things done. Like most AI assistants, the idea is to instill focus and provide insights on prioritizing tasks. Although the company is leveraging OpenAI and Anthropic to train its models, Asana's AI teammates are powered through its Work Graph data model. [Read more. \(VentureBeat\)](#)

**Duality AI releases FalconEditor digital twin simulation platform based on Unreal.** Duality AI announced the release of FalconEditor, an intuitive visual tool for creating digital twins and simulations. The Duality FalconEditor is powered by Epic Games' Unreal Engine, a leading real-time 3D engine used to make popular games like Fortnite. In this case, Duality is using it to help create digital twins, which simulate real-world locations such as factories or office buildings. [Read more. \(VentureBeat\)](#)

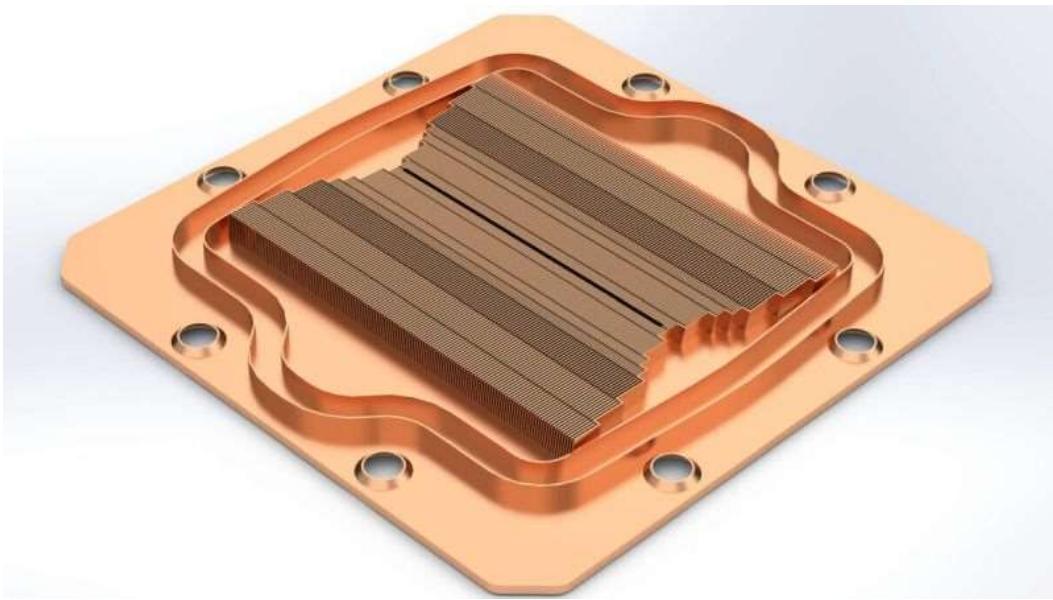
**Stability AI debuts new Stable Audio Open for sound design.** Stability AI is opening its generative AI efforts for audio with the release of Stable Audio Open 1.0. Stability AI is perhaps best known for its stable diffusion text-to-image generation AI technology, but that's only one part of the company's broader portfolio, which includes multiple models for code, text, and audio. In Sept. 2023, Stability AI first publicly launched Stable Audio, as a text-to-audio generative AI tool. [Read more. \(VentureBeat\)](#)

**Nothing's next phone will be all about AI.** Nothing CEO Carl Pei published a video in which he makes two big claims: that smartphones are in fact the AI gadget of the future and that AI might change the way we use those phones. "People love their phones!" Pei says in the video. But "the user experience hasn't really changed for a really long time." [Read more. \(The Verge\)](#)

**Asetek Integrates AI and 3D Printing in Water Blocks.** Danish cooling systems company Asetek is enhancing water block designs using AI and 3D printing. The project was revealed at Computex 2024, emphasizing collaboration with Fabric8Labs, which will handle the metal 3D printing. By employing AI, Asetek optimizes the internal configuration of water block bases, improving heat removal and hydrodynamics. This reduces fluid flow resistance, maintaining cooling efficiency with quieter operation. AI enables precise design adjustments, enhancing performance without the need for noisier pumps. [Read more..](#) [\(3D Printing\)](#)

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### Inside the Cooling Block



Source: Intro-act, 3DPrinting.com, Asetek

**eBay debuts AI-powered background tool to enhance product images.** eBay's newest AI feature allows sellers to replace image backgrounds with AI-generated backdrops. The tool is now available for iOS users in the U.S., U.K., and Germany. It'll gradually roll out to Android users over the coming months. Following in Amazon's and Google's footsteps, the e-commerce company announced the launch of its new AI-powered background-enhancement tool, which automatically removes image backgrounds and replaces them with a backdrop of your choosing. [Read more..](#) [\(TechCrunch\)](#)

**Wix's new tool taps AI to generate smartphone apps.** Wix, the platform known chiefly for its Web design tools, is launching a generative AI feature that'll let customers create and edit iOS or Android apps by describing what they want to see in plain English. The capability, which is set to arrive in Wix's app builder tool, guides users through a chatbot-like interface to understand the goals, intent, and aesthetic of their app. With this info, Wix's AI generates an app that can be customized from the app editor, and then optionally embellished with first- and third-party integrations, widgets, and connectors. [Read more..](#) [\(TechCrunch\)](#)

**True Fit leverages generative AI to help online shoppers find clothes that fit.** True Fit, the AI-powered size-and-fit personalization tool, has offered its size recommendation solution to thousands of retailers for nearly 20 years. Now, the company is venturing into the generative AI space with "Fit Hub," a new tool that aims to improve the way online shoppers find clothing that fits their body type. Sizing issues continue to be one of the main sources of friction among online consumers, with the average return rate for e-commerce at 17.6%. [Read more..](#) [\(TechCrunch\)](#)

### AI-Powered “Fit Insights”



Source: [Intro-act](#), [TechCrunch](#), [True Fit](#)

**GetWhy, a market research AI platform that extracts insights from video interviews, raises \$34.5 million.** GetWhy, a consumer research tech company that uses AI to help businesses carry out market studies and extract insights from video-based interviews, has raised \$34.5 million in a Series A round of funding from California-based VC firm, PeakSpan Capital. [Read more.](#) ([TechCrunch](#))

**Samsung added AI upscaling to its new OLED gaming monitor.** Samsung says the G80SD model is its first AI-powered gaming monitor, featuring the same NQ8 AI Gen3 processor as its recently released 2024 Neo QLED 8K TV. That chip is behind the monitor's AI-upscaling capabilities, according to Samsung, which enables content and games to be upscaled to almost 4K when run through the monitor's built-in smart TV apps and Gaming Hub, respectively. [Read more.](#) ([The Verge](#))

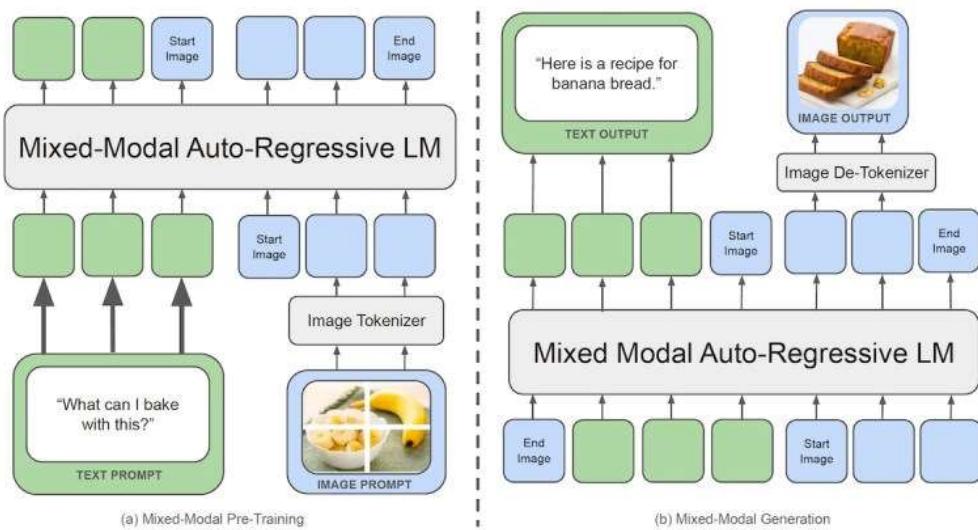
**Binit is bringing AI to trash.** Early attempts at making dedicated hardware to house artificial intelligence smarts have been criticized in the past.. But here's an AI gadget-in-the-making that's applying large language models' (LLMs) image processing capabilities to tracking household trash. AI for sorting the stuff we throw away to boost recycling efficiency at the municipal or commercial level has garnered attention from entrepreneurs for a while now. But Binit founder, Borut Grgic, believes household trash tracking is untapped territory. [Read more.](#) ([TechCrunch](#))

**Computer makers unveil Nvidia Blackwell systems for AI rollouts.** Nvidia CEO Jensen Huang announced at Computex that the world's top computer manufacturers are unveiling Nvidia Blackwell architecture-powered systems featuring Grace CPUs, Nvidia networking and infrastructure for enterprises to build AI factories and data centers. Nvidia Blackwell graphics processing units (GPUs), which have 25 times better energy consumption and lower costs for tasks for AI processing. And the Nvidia GB200 Grace Blackwell Superchip promises exceptional performance gains, providing up to 30 times performance increase for LLM inference workloads compared to previous iterations. [Read more.](#) ([VentureBeat](#))

**Nvidia unveils inference microservices that can deploy AI applications in minutes.** Jensen Huan, gave a keynote at the Computex trade show in Taiwan about transforming AI models with Nvidia NIM (Nvidia inference microservices) so that AI applications can be deployed within minutes rather than weeks. He said the world's 28 million developers can now download Nvidia NIM — inference microservices that provide models as optimized containers — to deploy on clouds, data centers or workstations. [Read more.](#) (VentureBeat)

**Meta introduces Chameleon, a state-of-the-art multimodal model.** As competition in the generative AI field shifts toward multimodal models, Meta has released a preview of what can be its answer to the models released by Frontier Labs. Chameleon, its new family of models, has been designed to be natively multi-modal instead of putting together components with different modalities. The architecture of Chameleon can unlock new AI applications that require a deep understanding of both visual and textual information. [Read more.](#) (VentureBeat)

### Met Chameleon Encoding and Decoding Logic



Source: *Intro-act, Venture Beat, arxiv*

**Meta and Google release powerful automatic data curation method.** As AI researchers and companies race to train bigger and better machine learning models, curating suitable datasets is becoming a growing challenge. To solve this problem, researchers from Meta AI, Google, INRIA, and Université Paris Saclay have introduced a new technique for automatically curating high-quality datasets for self-supervised learning (SSL). Their method uses embedding models and clustering algorithms to curate large, diverse, and balanced datasets without the need for manual annotation. [Read more.](#) (VentureBeat)

**Today unveils Dreamia AI-powered character and storytelling engine.** Today has unveiled Dreamia, an AI-powered character engine that shapes storytelling in real-time. Lisbon, Portugal-based Today is building a next-gen social simulation game where players cultivate thriving virtual island communities. And Dreamia is its biggest product launch yet. To achieve its vision of a more dynamic, responsive, and creative cozy social sim, Today raised \$5 million from Sfermion and Big Brain earlier this year. [Read more.](#) (VentureBeat)

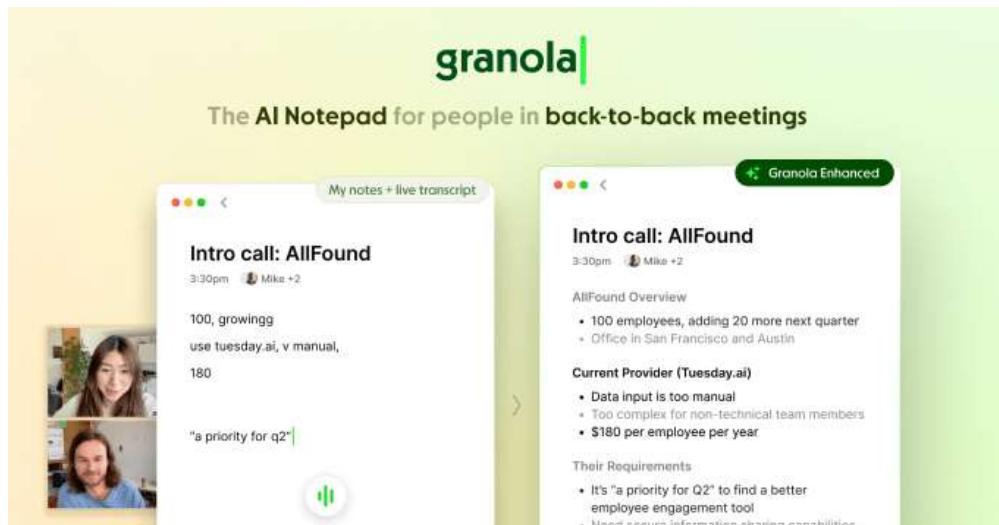
**How Microsoft's Models-as-a-Service plan democratizes AI access.** Today's tools make it easy to build AI-powered applications. But a complex area most, if not all, developers want to avoid is having to sort out how to host the models being used. It's one thing to choose between OpenAI's GPT-4o, Meta's Llama 3, Google's Gemini, or the many open-source models out in the marketplace. It's quite another to deploy it. [Read more.](#) (VentureBeat)

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**Cohere launches open weights, multilingual AI model Aya 23.** Cohere for AI (C4AI), the nonprofit research arm of Canadian enterprise AI startup Cohere, announced the open weights release of Aya 23, a new family of state-of-the-art multilingual language models. Available in 8B and 35B parameter variants (parameters refer to the strength of connections between artificial neurons in an AI model, with more generally denoting a more powerful and capable model). Aya 23 comes as the latest work under C4AI's Aya initiative that aims to deliver strong multilingual capabilities. [Read more.](#) (*VentureBeat*)

**Granola debuts an AI notepad for meetings.** Taking meeting notes is a chore, so why not leave that task to AI? That's the premise behind a new startup, Granola, whose AI-powered notepad app lets you combine your own notes with those created by AI based on a transcript of your meeting. Unlike some other AI transcription apps that try to summarize the key points of a meeting on their own, Granola takes a more collaborative approach to working with AI. You can opt to guide the AI by writing down what you think the most important takeaways were from the meeting and allow the AI to fill in the details. [Read more.](#) (*TechCrunch*)

### Met Chameleon Encoding and Decoding Logic



Source: *Intro-act, Tech Crunch, Granola*

**Windows now has AI-powered copy and paste.** Microsoft is adding a new Advanced Paste feature to PowerToys for Windows 11 that can convert your clipboard content on the fly with the power of AI. The new feature can help people speed up their workflows by doing things like copying code in one language and pasting it in another, although its best tricks require OpenAI API credits. Advanced Paste is included in PowerToys version 0.81 and, once enabled, can be activated with a special key command: Windows Key + Shift + V. [Read more.](#) (*The Verge*)

## PARTNERSHIPS AND FUNDRAISING

**CuspAI raises \$30 million to create a GenAI-driven search engine for new materials.** The modern method of coming up with new materials is to make something and then use a computer to work out whether the material came out correctly. But what if you flipped that around, using generative-AI-driven software to design the material in the first place? That's the premise behind Cambridge, U.K.-based CuspAI, which has now secured \$30 million in a seed round led by Hoxton Ventures, with significant participation from Basis Set Ventures and Lightspeed Venture Partners. [Read more.](#) (*TechCrunch*)

**Autify launches Zenes, an AI agent for software quality assurance.** AI applications are transforming and reshaping various industries and changing how people work. Software development is no exception. San Francisco- and Tokyo-

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based startup Autify has built an autonomous AI agent for software quality assurance to help software engineers complete code quickly, streamline workflows and increase productivity. In other words, it's built an AI QA engineer for software engineers. [Read More](#) (TechCrunch)

**Finbourne taps \$70 million for tech that turns financial data dust into AI gold.** Companies in fields like financial services and insurance live and die by their data — specifically, how well they can use it to understand what people and businesses will do next, a process that is becoming increasingly dominated by AI. Now, a startup called Finbourne, founded out of London's financial center, has built a platform to help financial companies organize and use more of their data in AI and other models. It's announcing £55 million (\$70 million) in funding, which will be used to expand its reach outside of the Square Mile. [Read more.](#) (TechCrunch)

**Picsart teams up with Getty to take on Adobe's "commercially safe" AI.** Picsart has teamed up with Getty Images to launch a "responsible, commercially safe" AI image generator that's trained exclusively on the stock image platform's licensed content. Picsart says its AI lab is building a custom model from scratch that will power the tool, allowing the platform's paid subscribers to generate images with full commercial rights — which aims to address long-standing concerns regarding AI-generated content violating copyright laws. [Read more.](#) (The Verge)

### Picsart's Blog Contained These Examples Supposedly Generated Using Its Upcoming AI Model



Source: Intro-act, The Verge, Picsart

**Apple and OpenAI make a deal.** So, Apple reportedly isn't paying OpenAI to handle its users' ChatGPT queries, and OpenAI isn't paying Apple for its massive distribution. If that's the case, what do these two companies get out of their blockbuster partnership? And can OpenAI and Apple afford to do this, economically and reputationally? It's a strange pairing, but it's coming to a device near you this fall. [Read more.](#) (The Verge)

**Amazon says it'll spend \$230 million on generative AI startups.** Amazon says that it will commit up to \$230 million to startups building generative AI-powered applications. The investment, roughly \$80 million of which will fund Amazon's second AWS Generative AI Accelerator program, aims to position AWS as an attractive Cloud infrastructure choice for startups developing generative AI models to power their products, apps and services. Much of the new tranche — including the entire portion set aside for the accelerator program — comes in the form of compute credits for AWS infrastructure. [Read more.](#) (TechCrunch)

**GPTZero's founders, still in their 20s, have a profitable AI detection startup, millions in the bank and a new \$10M Series A.** Here's how VC Nikhil Basu Trivedi beat out hoards of other VCs to win the deal. Among all the young AI startups being ruthlessly pursued by VCs these days, GPTZero has already grown into profitability in its first year and a half of life, generating millions in revenue. Founded by 24-year-old Edward Tian and 26-year-old Alex Cui,

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who've been friends since high school, GPTZero offers a detection tool that helps identify whether a piece of content was AI generated. [Read more.](#) (TechCrunch)

**Databricks expands Mosaic AI to help enterprises build with LLMs.** A year ago, Databricks acquired MosaicML for \$1.3 billion. Now rebranded as Mosaic AI, the platform has become integral to Databricks' AI solutions. Today, at the company's Data + AI Summit, it is launching several new features for the service. Databricks is launching five new Mosaic AI tools at its conference: Mosaic AI Agent Framework, Mosaic AI Agent Evaluation, Mosaic AI Tools Catalog, Mosaic AI Model Training and Mosaic AI Gateway. [Read more.](#) (TechCrunch)

**Mistral raises \$640M to take on OpenAI, Anthropic in gen AI race.** A year after entering the generative AI race with Europe's largest-ever seed round of \$113 million, Mistral AI is raising more cash. —The Paris-based startup announced it has secured \$640 million series B funding in a combination of debt and equity, taking its valuation to nearly \$6 billion. The investment has been led by General Catalyst, with contributions from several new and existing investors, including Lightspeed, Andreessen Horowitz, Bpifrance as well as the investment arms of IBM, Samsung, Salesforce, Cisco, and Nvidia. [Read more.](#) (VentureBeat)

**Linq raises \$6.6M to use AI to make research easier for financial analysts.** When generative AI tools started making waves in late 2022 after the launch of ChatGPT, the finance industry was one of the first to recognize their potential for speeding up the data-gathering and research process. Now, a startup called Linq is entering this space with an AI agent that can automate a variety of tasks required for financial analysis and research and has raised \$6.6 million in a funding round led by InterVest and Atinum, with participation from TechStars, Kakao Ventures, Smilegate Investment and Yellowdog. [Read more.](#) (TechCrunch)

**AI news reader Particle adds publishing partners and \$10.9M in new funding.** Traffic is down, newsrooms are undergoing layoffs and publishers fear that AI technologies will only make matters worse. Entering the fray, news-reader startup Particle is teaming up with publishers to seek out a new business model for the AI era, where AI summaries of news don't have to mean lost revenues. The startup, built by former Twitter engineers, offers a news-reading app that helps readers understand all angles of the story by leveraging AI to summarize the news from across a range of publishers. [Read more.](#) (TechCrunch)

**Hugging Face and Pollen Robotics open-source robot does chores.** Earlier this year, the open-source AI code Hugging Face, headquartered in Brooklyn, New York, made waves by announcing the hiring of a former robotics engineer from Tesla's Optimus program to lead its new effort — an open-source robotics program called "Le Robot." robot The program has produced a humanoid robot designed by Pollen Robotics, another open-source robot company based in Bordeaux, France, which partnered with Hugging Face to train the robot to do a variety of household and safely interact with humans and dogs.

**Tektonic AI raises \$10M to build GenAI agents for automating business operations.** It doesn't feel like those services, which tried to automate a lot of repetitive business processes, ever quite lived up to their promise. The rise of generative AI, however, may just be the missing key to building these kinds of systems. Seattle-based Tektonic is one of the new startups in this space. The company, which combines GenAI with more traditional symbolic methods, is coming out of stealth and announcing its \$10M seed funding round led by Point72 Ventures and Madrona Ventures. [Read more.](#) (TechCrunch)

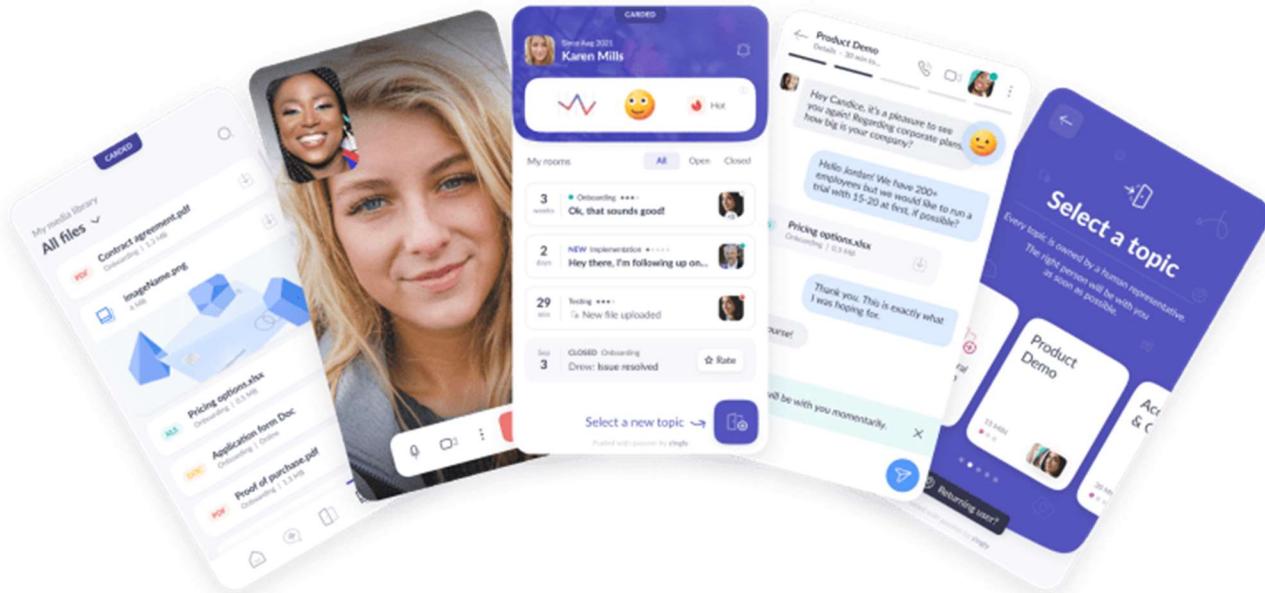
**Greptile raises \$4M to build an AI-fueled code base expert.** When you look at how generative AI is being implemented across developer tools, the focus for the most part has been on generating code, as with GitHub Copilot. Greptile, an early-stage startup from a group of recent Georgia Tech grads, decided to take a different approach: using AI to help developers understand the code base. And rather than solely using a chat interface, as most vendors have done, the startup provided another unique twist by building an API that developers can connect to the code base and build custom apps based on an AI-driven query. [Read more.](#) (TechCrunch)

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**Sirion, now valued at around \$1B, acquires Eigen as consolidation comes to enterprise AI tooling.** Look beyond the hype and high-profile deals, and you'll see that the world is already years into using customer-facing, no-code AI tools for extracting information and working faster. Now, one of the early movers in this space — Sirion Labs, a specialist in contracts — is acquiring another enterprise AI pioneer, Eigen Technologies, which focuses on parsing and extracting insights and data from documents in verticals like insurance, finance, and law. [Read more.](#) (*TechCrunch*)

**Zingly wants to revolutionize customer service with AI collab rooms.** Customer service is the cornerstone of many successful businesses across sectors. If you do it right, you can build long-term relationships and brand loyalty. However, despite the advances in technology over the last decade or so, customer experience (CX) has been declining, with customers finding it hard to reach out and get the assistance they need on time. Zingly, a California-based startup working to address this imbalance with the power of AI and data, has now emerged from stealth. [Read more.](#) (*VentureBeat*)

### Zingly Customer Experience Screens



Source: *Intro-act, Venture Beat*

**Humane is reportedly trying to sell itself to HP for \$1 billion.** Following rumors that Humane is hunting for a potential buyer for its AI Pin business, a new report suggests that HP may be a contender. According to *The New York Times*, Humane started talking to HP about selling itself for more than \$1 billion around a week after reviews emerged that widely panned its \$699 wearable AI computer pin. That figure is also reflective of a similar report from *Bloomberg* last month that said Humane is “seeking a price of between \$750 million and \$1 billion.” [Read more.](#) (*The Verge*)

**Bem raises \$3.7M to automate unstructured data conversion.** It's easy to upload images, videos, documents and spreadsheets to educate models, but what about other unstructured data types like invoices, emails, and PDFs? Though it is possible to convert those files into something searchable, it's done manually and is time-consuming — not to mention that engineering teams may not have the machine-learning capabilities necessary. However, one company believes it has the solution that organizations are seeking. [Read more.](#) (*VentureBeat*)

**Storyblok raises \$80M to add more AI to its “headless” CMS, which is aimed at non-technical people.** If content is king, then the focus is on how the king is expanding the empire: Print and traditional media first got augmented by

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websites, and now websites are being augmented by a fast-expanding landscape of apps, social media platforms, and content created by artificial intelligence. Now, a company that's building for that content horizon has raised a big round of funding to expand its business. Storyblok, a startup out of Linz, Austria, that provides a content management system (CMS) for organizations built around the "headless" concept, has closed a Series C round of \$80 million. [Read more.](#) (*TechCrunch*)

**Sword Health raises \$130 million and its valuation soars to \$3 billion.** Sword Health, an AI-powered virtual physical therapy startup, has raised \$30 million and let employees sell \$100 million worth of equity to new and existing investors, including Khosla Ventures. The round brings the nine-year-old company's valuation to \$3 billion, a 50% increase from the \$2 billion value it garnered in its Series D in November 2021. [Read more.](#) (*TechCrunch*)

**Raspberry Pi partners with Hailo for its AI extension kit.** The latest version of the Raspberry Pi, the small-but-mighty computer that has become quite popular with tech hobbyists and industrial companies, can now also be an AI computer. The company released the AI Kit, which is a \$70 extension kit with a neural network inference accelerator that can be used for local inferencing. For this new extension module, Raspberry Pi is taking advantage of its HAT+ extension card. [Read more.](#) (*TechCrunch*)

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### AI Extension Kit



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Source: *Intro-act, Tech Crunch, Raspberry Pi*

**New Cisco AI investment fund not just “another billion dollars,” CEO says.** New AI innovations and benchmarks are announced every day, and enterprises are clamoring to take advantage. But sometimes it can be difficult to bridge the gap between what works in the lab and what works in the enterprise pipeline. To help support the startup system and expand the development of generative AI and large language models (LLMs), Cisco Investments has launched a \$1 billion AI investment fund. [Read more.](#) (*VentureBeat*)

**Cloudera acquires Verta to bring some AI chops to its data platform.** Cloudera, the once high-flying Hadoop startup, raised \$1 billion and went public in 2018 before being acquired by private equity for \$5.3 billion in 2021. Today, the company announced that it is acquiring Verta, an AI startup that helps customers manage machine learning models, including large language models (LLMs) used in generative AI. Cloudera, which launched a SaaS data lakehouse the year after it was acquired, needed AI capability to stay relevant in today's market. [Read more.](#) (*TechCrunch*)

**Swiss startup Neural Concept raises \$27M to cut EV design time to 18 months.** As pressure from Chinese competitors intensifies and the EV market stalls, major U.S. and European auto manufacturers are racing to cut the

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cost of producing electric vehicles so they can get to the price tags and profit margins of internal combustion engine (ICE) cars. But to do that, they must find ways to make the design process faster and more efficient. Neural Concept, a company spun out from the Swiss Federal Institute of Technology in Lausanne (EPFL), has raised \$27 million in a Series B funding round to apply AI to solve that exact pain point. [Read more.](#) (TechCrunch)

### EV Designing using AI



Source: *Intro-act, Tech Crunch, Neural Concept*

**VCs are selling shares of hot AI companies like Anthropic and xAI to small investors in a wild SPV market.** VCs are clamoring to invest in hot AI companies, and willing to pay exorbitant share prices for coveted spots on their cap tables. Even so, most aren't able to get into such deals at all. Yet small, unknown investors, including family offices and high-net-worth individuals, have found their own way to get shares of the hottest private startups like Anthropic, Groq, OpenAI, Perplexity, and Elon Musk's X.ai (the maker of Grok). [Read more.](#) (TechCrunch)

**Zendata raises \$2M to redefine AI governance and data privacy with no-code platform.** Zendata, a San Francisco-based startup, quietly announced its emergence from stealth mode with a \$2 million seed funding round led by PayPal Ventures, First-hand Alliance, Geek Ventures, and Altari Ventures. The company aims to revolutionize how organizations manage data security, AI governance, and privacy across the entire data lifecycle. [Read more.](#) (VentureBeat)

**AI manufacturing startup funding is on a tear as Switzerland's EthonAI raises \$16.5 million.** As factories and manufacturing facilities have gotten "smarter" through sensors, robotics and other connected technologies, this has created a potential treasure trove of data that can be mined for insights on bottlenecks and other areas for improvement. Or maybe even to just expedite processes that would otherwise require significant manual spadework. But much of this generated data is unstructured and not easy to harness off the bat. [Read more.](#) (TechCrunch)

**Exactly.ai secures \$4M to help artists use AI to scale up their output.** With all the controversy surrounding visual artists being ripped off by AI, it seems that these are difficult and confusing days for creators. Now, a London-based startup hopes to use AI to help artists take back control. Exactly.ai says it uses generative AI to help artists retain legal ownership of their art and gives them the ability to reproduce their designs much faster and at scale. It's now raised \$4.3 million in a seed funding round. [Read more.](#) (TechCrunch)

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**OpenAI signs 100K PwC workers to ChatGPT's enterprise tier as PwC becomes its first resale partner.** ChatGPT has changed how most people regard and interact with AI, and the tool has been used widely to do everything from create travel itineraries to assisting developers with coding. Now, its creator, OpenAI, has announced that it has signed a major enterprise customer it hopes will indicate how a similar effect could play out in the world of work. PwC, the management consulting giant, will become OpenAI's biggest customer to date. [Read more.](#) *(TechCrunch)*

**Play AI raises \$4.3M to use AI for “hyper-personalized gaming.”** Play AI has raised \$4.3 million in a seed funding round to build the middleware for AI models and agents in gaming. The platform, which the Las Vegas company calls “a modular chain for gaming AI,” will equip developers with high-quality gaming data and tools, improve gaming content generation, and reward users for their gameplay through data contributions. Play AI is thus introducing a new monetization stream for global gamers, where they can now contribute and earn from their gameplay data. [Read more.](#) *(VentureBeat)*

### Play AI is building AI tools for Gaming



Source: *Intro-act, Play AI*

**Maven AGI's \$28M funding round signals the rise of generative AI in customer support.** Maven AGI, a generative AI platform poised to revolutionize enterprise customer support, announced that it has raised \$28 million in funding and is launching out of stealth mode. The Series A round was led by M13, with participation from Lux Capital, E14 Fund (MIT's founder fund), and notable executives from OpenAI, Google, HubSpot, and Stripe. [Read more.](#) *(VentureBeat)*

**Kinetix and Overdare put generative AI in gamers' hands.** Kinetix, the generative AI startup creating user-generated emotes (UGE) for video games, has teamed up with Overdare to put generative AI in the hands of gamers. Overdare is a user-generated content (UGC) platform from South Korean publishing giant Krafton. Today, the companies are placing the power of generative AI directly into the hands of gamers. Enabling completely new, previously impossible user experiences, Kinetix technology has been integrated into Overdare to enable players to turn videos into dynamic 3D animations (also called “emotes”). [Read more.](#) *(VentureBeat)*

**Elon Musk's xAI raises \$6B to take on OpenAI.** Elon Musk's xAI startup announced a massive \$6 billion round of funding. Confirming reports from April, the series B investment comes from the participation of multiple known venture capital firms and investors, including Valor Equity Partners, Vy Capital, Andreessen Horowitz (A16z), Sequoia Capital,

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Fidelity Management & Research Company, Prince Alwaleed Bin Talal and Kingdom Holding, amongst others. Musk said the funding has been raised at a pre-money valuation of \$18 billion. [Read more.](#)

**Anomaly raises \$1.45M for AI-driven Layer 3 gaming platform.** Anomaly has raised \$1.45 million for an AI-driven Layer 3 Web3 gaming platform. Anomaly unveiled its AI-driven layer 3 gaming platform, which the company said has captivated Telegram's users with a novel "play-to-airdrop" mechanism. The recent funding round valued Anomaly at \$11.4 million post-money and it was led by Decasonic, with participation from Shima Capital, Round 13, Triptyq VC, BreakOrbit VC, Inferno labs and some angels. [Read more.](#) (VentureBeat)

**Intently raises \$3M to launch AI-powered networking tool for startup founders.** Intently, an enterprise AI startup, has announced the launch of Founder AI, a new product that uses artificial intelligence to help startup founders identify relevant investors and warm introductions within their existing networks. The tool analyzes a founder's Gmail account and LinkedIn connections to surface the most promising paths to VCs and angels, automating one of the most time-consuming and opaque parts of the fundraising process. [Read more.](#) (VentureBeat)

**OpenAI partners with WSJ publisher News Corp.** In a significant move set to impact AI and mainstream media, OpenAI today announced its newest partnership with an outside media agency — News Corp., the company founded by billionaire media mogul Rupert Murdoch. News Corp. controls such outlets as The Wall Street Journal and major book publisher HarperCollins (not included in this deal). [Read more.](#) (VentureBeat)

**Bolster, creator of the CheckPhish phishing tracker, raises \$14M led by Microsoft's M12.** An AI startup called Bolster has built a novel approach to tackle dodgy emails generated by cybercriminals has raised \$14 million in funding [Read more.](#) (TechCrunch)

**AI language translation startup DeepL nabs \$300M on a \$2B valuation to focus on B2B growth.** More funding is being poured into startups focused on AI. DeepL, which builds automated text translation and writing tools that compete against the likes of Google Translate and Grammarly announced that it has raised an additional \$300 million. It is now valued at \$2 billion, post-money. This round, led by Index Ventures, underscores the frenetic interest that investors have in AI startups now and how companies are capitalizing on that opportunity while they can. [Read more.](#) (TechCrunch)

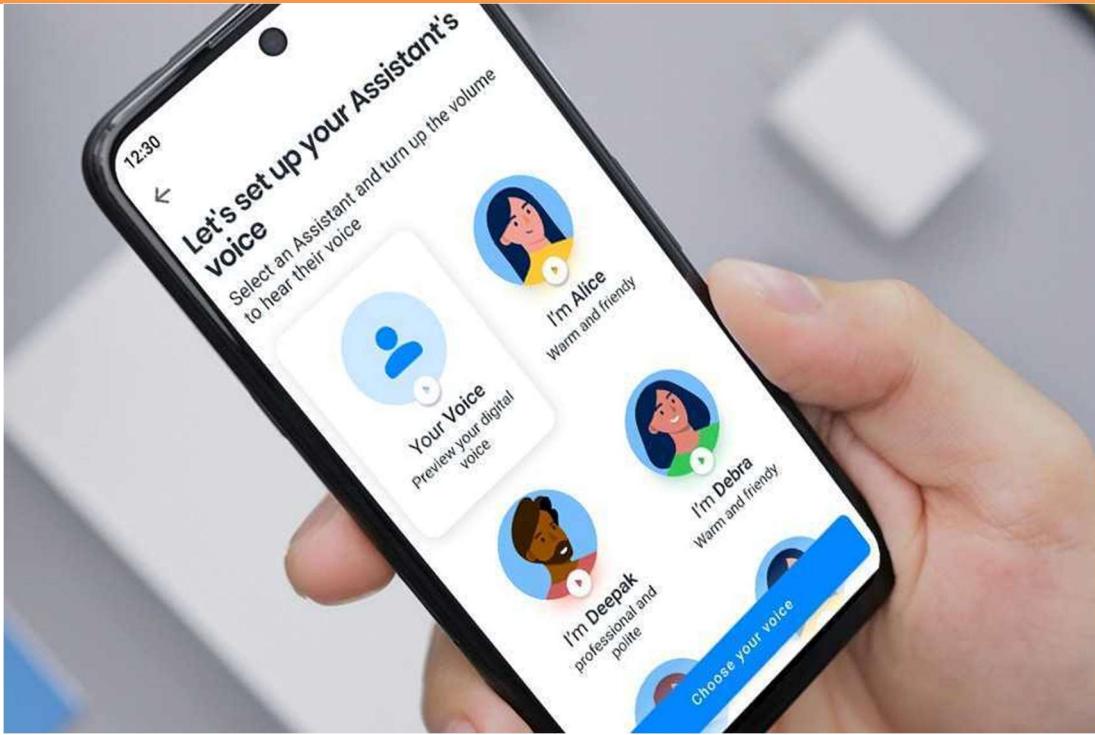
**Praktika raises \$35.5M to use AI avatars to make learning languages feel more natural.** Most apps that help you learn languages have features where you select options or swipe away wrong answer cards — you're more or less interacting with a machine. Language-learning app Praktika is adopting a different approach: It lets you create personalized AI-powered avatars to replicate the experience of having a private tutor, leveraging inflections like tone of voice and emotions to help make learning a language feel more natural. [Read more.](#) (TechCrunch)

**Truecaller partners with Microsoft to let its AI respond to calls in your own voice.** AI has already started replacing voice agents' jobs. Now, companies are exploring ways to replace the existing computer-generated voice models with synthetic versions of human voices. Truecaller, the widely known caller ID service, is the latest to take this approach with its announcement that it will now allow customers to use its AI-powered Assistant to answer phone calls in their own voice. [Read more.](#) (TechCrunch)

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### Truecaller Equipped with AI Response

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Source: *Intro-act, Tech Crunch Truecaller*

**Suno raises \$125M to become the “ChatGPT” of music creation.** Suno, a trailblazing music AI startup, announced that it has raised a staggering \$125 million in its latest funding round, positioning the company at the forefront of the AI music revolution. The substantial investment is set to transform how music is created, consumed, and monetized. Founded by Mikey Shulman, a Harvard Ph.D. in physics-turned-music tech entrepreneur, Suno has quickly become a rising star in the world of generative AI for music. [Read more.](#) (*VentureBeat*)

**Microsoft and Khan Academy partner to show how AI can transform education.** Microsoft is partnering with Khan Academy in a multifaceted deal to demonstrate how AI can transform the way we learn. The cornerstone of today's announcement centers on Khan Academy's Khanmigo AI agent. Microsoft says it will migrate the bot to its Azure OpenAI Service, enabling the nonprofit educational organization to provide all U.S. K-12 educators free access to Khanmigo. [Read more.](#) (*VentureBeat*)

**Autodesk acquires AI-powered VFX startup Wonder Dynamics.** Autodesk — the 3D tools behemoth — has acquired Wonder Dynamics, a startup that lets creators quickly and easily make complex characters and visual effects using AI-powered image analysis. The two companies have worked closely together for years but are making it official. Wonder Dynamics, founded by VFX artist Nikola Todorovic and actor Tye Sheridan, made adding motion-captured CG characters to footage as simple as dragging an icon onto an actor. [Read more.](#) (*TechCrunch*)

**French AI startup H raises \$220 million seed round.** It's not often that you hear about a seed round above \$10 million. However, H, a startup based in Paris and previously known as Holistic AI, has announced a \$220 million seed round just a few months after the company's inception. It has managed to raise so much money so quickly because it's an AI startup working on new models with an impressive founding team. [Read more.](#) (*TechCrunch*)

**Data-labeling startup Scale AI raises \$1B as valuation doubles to \$13.8B.** Scale AI, which provides data-labeling services to companies that want to train machine learning models, has raised a \$1 billion Series F round from a slew of big-name institutional and corporate investors, including Amazon and Meta. The raise is a mix of primary and secondary funding, and is the latest in numerous big venture capital investments in AI. Amazon recently closed a \$4

## Disruptive Tech – Monthly AI Update

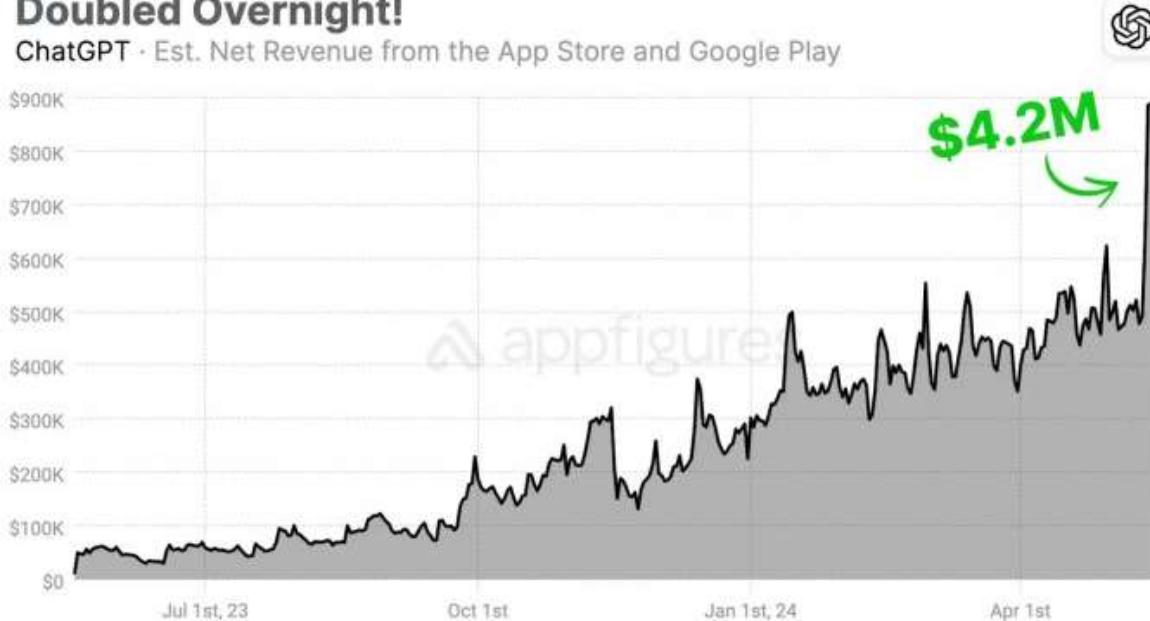
billion investment in OpenAI rival Anthropic, and the likes of Mistral AI and Perplexity are also in the process of raising more billion-dollar rounds at lofty valuations. [Read more. \(TechCrunch\)](#)

**ChatGPT's mobile app revenue saw its biggest spike yet following GPT-4o launch.** Consumer demand for the latest AI technology is heating up. The launch of OpenAI's latest flagship model, GPT-4o, has now driven the company's biggest-ever spike in revenue on mobile, despite the model being freely available on the web. GPT-4o, which launched, can handle text, speech and video, and delivers real-time responsiveness and a range of emotive voice options, making it a far more powerful model than what was offered before. [Read more. \(TechCrunch\)](#)

### Revenue Trend of ChatGPT Revenue

#### Doubled Overnight!

ChatGPT · Est. Net Revenue from the App Store and Google Play



Source: Intro-act, Tech Crunch, Appfigures

**Kyndryl and Nvidia team to boost enterprise generative AI adoption.** IT infrastructure provider Kyndryl has partnered with Nvidia to help business leaders better implement AI-powered projects. Though C-suite executives embrace generative AI, uncertainty remains about capitalizing on the technology. This collaboration provides organizations with the capabilities to expedite development and ensure its usefulness in a real-life setting. This is Kyndryl's first working agreement with Nvidia, but the company is no stranger to tying its services to AI and Cloud infrastructure. [Read more. \(VentureBeat\)](#)

## DISRUPTIVE TECH EVENTS CALENDAR

### Disruptive Tech Industry Events Calendar

S. No.	Event Name	Place	Date	Registration Link
1	TECHSPO San Francisco 2024	San Francisco	July 08, 2024	<a href="#">Link</a>
2	TECHSPO Silicon Valley 2024	Silicon Valley	July 08, 2024	<a href="#">Link</a>
3	SecureIT New York	New York	July 11, 2024	<a href="#">Link</a>
4	TECHSPO Tokyo 2024	Tokyo, Japan	July 20, 2024	<a href="#">Link</a>
5	THAT Conference   Wisconsin	Wisconsin	July 29, 2024	<a href="#">Link</a>

Source: Intro-act, Multiple Web Sources

## AI - FUNDING

### Top Seed /Angel Deals in Q1'24

Company Name	Security Type	Investment Date	Amount (\$ million)
Physical Intelligence	Seed VC	3/12/2024	\$70M
Relation Therapeutics	Seed VC	1/19/2024	\$35M
Sakana AI	Seed VC	1/17/2024	\$30M
Borderless AI	Seed VC	3/21/2024	\$27M
Adaptive ML	Seed VC	3/11/2024	\$20M
ArteraAI	Seed VC	2/1/2024	\$20M
Dandelion	Seed VC	3/15/2024	\$16M
Jua	Seed VC	2/5/2024	\$16M
Haiper	Seed VC	3/5/2024	\$14M
Monumo	Seed VC	2/20/2024	\$13M

Source: Intro-act, CB-Insights

## Disruptive Tech – Monthly AI Update

### Top Unicorns by Valuation in Q1'24

S. No.	Company Name	Amount (\$ Billion)	Country
1	ByteDance	\$225.0B	China
2	OpenAI	\$80.0B	United States
3	Databricks	\$43.0B	United States
4	Anthropic	\$18.4B	United States
5	Grammarly	\$13.0B	United States
6	Faire	\$12.6B	United States
7	Talkdesk	\$10.0B	United States
8	Tanium	\$9.0B	United States
9	Nuro	\$8.6B	United States
10	Pony.ai	\$8.6B	United States

Source: Intro-act, CB-Insights

### M&A Transactions in Disruptive Tech Companies in the Past Three Months

Target	Acquirer	Announcement Date	Transaction Status	Target Country
Embryonics	Recharge RHEA Holdings	30-May-2024	Complete	Israel
Shenzhen Guoli Intelligent Technology Co., Ltd.	Visionary Holdings, Inc.	29-May-2024	Complete	China (People's Republic)
Groupe ProductLife SAS	Oakley Capital Ltd. (Private Equity)	23-May-2024	Complete	France
Skyhive Technologies Holdings, Inc.	Cornerstone OnDemand, Inc.	22-May-2024	Complete	United States
Mobilize AI LLC	Employment Screening Plus LLC	16-May-2024	Complete	United States
Torc LLC	Randstad Digital BV	16-May-2024	Complete	United States
Sports IQ Analytics, Inc.	DraftKings, Inc.	09-May-2024	Complete	Canada

## Disruptive Tech – Monthly AI Update

DocuSmart, Inc.	DocuSign, Inc.	06-May-2024	Complete	United States
eMulya Fintech Pvt Ltd.	Intain Technologies Pvt Ltd.	06-May-2024	Complete	Singapore
iAMPS & Hz Technology Solutions Pvt Ltd.	Elfonze Technologies Pvt Ltd.	06-May-2024	Complete	India
Myndshft Technologies, Inc.	DrFirst.com, Inc.	17-Apr-2024	Complete	United States
Simulacra Corp.	Tokens.com Corp.	04-Apr-2024	Complete	United States
IID Holdings LLC	X2Engine, Inc.	03-Apr-2024	Complete	United States
ArtiQ NV	ERT Operating Co.	02-Apr-2024	Complete	Belgium
Modulus Therapeutics, Inc.	Ginkgo Bioworks Holdings, Inc.	02-Apr-2024	Complete	United States

Source: *Intro-act, FactSet*

## Disruptive Tech – Monthly AI Update

### AI ETFs

#### Global X Robotics & Artificial Intelligence ETF (BOTZ)

<b>Closing Price (06/25/24)</b>	<b>\$30.83</b>	<b>1 Week NAV Change</b>	<b>-0.03%</b>	<b>NAV Change (YTD)</b>	<b>12.63%</b>
<b>AUM (as of 06/25/24)</b>	<b>\$2.7 B</b>	<b>Fund Inception</b>	<b>09/12/2016</b>	<b>Expense Ratio</b>	<b>0.68%</b>

The Global X Robotics & Artificial Intelligence ETF invests in an index of companies that stand to benefit from the increased adoption of automation, robotics, and artificial intelligence. Part of the Global X suite of niche thematic ETFs, BOTZ's top holdings include NVIDIA, Keyence Corp, and Mitsubishi Electric. At 68 basis points, the BOTZ management fee is high for passive funds, but niche products aren't designed to be core portfolio products for set-it-and-forget-it investors. Micro-sector funds are geared for medium-term tactical wagers of weeks or months.

#### Monthly Market Performance (Month Ending 06/25/2024)

<b>One Month</b>	<b>Three Months</b>	<b>Six Months</b>	<b>YTD</b>	<b>One Year</b>	<b>Inception</b>
<b>5.30%</b>	<b>1.56%</b>	<b>18.94%</b>	<b>12.63%</b>	<b>19.40%</b>	<b>111.45%</b>

#### Quarterly Market Performance (Quarter Ending 03/31/2024)

<b>One Month</b>	<b>Three Months</b>	<b>Six Months</b>	<b>YTD</b>	<b>One Year</b>	<b>Inception</b>
<b>3.25%</b>	<b>14.80%</b>	<b>28.79%</b>	<b>14.80%</b>	<b>30.21%</b>	<b>115.51%</b>

#### Top 10 Holdings (Updated as of 06/25/24)

<b>Ticker</b>	<b>Company</b>	<b>% Of Funds</b>	<b>Market Value (\$ M)</b>
NVDA	Nvidia Corp	12.92	352.14
ABBNSW	Abb Ltd-Reg	9.74	265.35
ISRG	Intuitive Surgical Inc	9.31	253.72
6861JP	Keyence Corp	7.66	208.61
6273JP	SMC Corp	6.43	175.13
6954JP	Fanuc Corp	4.23	115.23
6506JP	Yaskawa Electric Corp	4.02	109.62
DT	Dynatrace Inc	4	109.01
CGNX	Cognex Corp	3.74	101.80
6645JP	Omron Corp	3.38	92.00

For more information on BOTZ visit: <https://www.globalxetfs.com/funds/botz/>

### AI ETFs

#### Trueshares Technology, AI & Deep Learning ETF (LRNZ)

<b>Closing Price (06/25/24)</b>	<b>\$ 38.31</b>	<b>1 Week NAV Change</b>	<b>-1.18%</b>	<b>NAV Change (YTD)</b>	<b>4.05%</b>
<b>AUM (as of 06/25/24)</b>	<b>\$40.39Mn</b>	<b>Fund Inception</b>	<b>02/28/2020</b>	<b>Expense Ratio</b>	<b>069%</b>

LRNZ is actively managed and invests in global equities focused on Artificial Intelligence and deep learning. LRNZ is one of TrueMark's first ETFs. The fund is an actively managed, concentrated portfolio of global stocks focused on the development and utilization of artificial intelligence, machine learning, or other deep learning technologies. The fund will hold 20-30 mostly large-cap stocks that derive at least half of their revenue or are determined to have a competitive advantage, in such technologies. Stocks are classified as either secular growth, a cyclical growth business, or IPO. The fund advisor selects the portfolio based on individual value and growth prospects. Secular growth stocks are expected to have the greatest number of holdings, to which the advisor anticipates utilizing a buy-and-hold strategy. Cyclical growth businesses are screened using fundamental analysis, to potentially buy shares at the bottom of a cycle and sell at the peak. Positions in selected IPOs are built over four to six months following the IPO. LRNZ caps industry exposure at 25%. Prior to May 18, 2020, the fund name was TrueMark Technology, AI & Deep Learning.

#### Monthly Market Performance (Month Ending 06/25/2024)

<b>One Month</b>	<b>Three Months</b>	<b>Six Months</b>	<b>YTD</b>	<b>One Year</b>	<b>Inception</b>
<b>-0.70%</b>	<b>-2.35%</b>	<b>-0.70%</b>	<b>4.05%</b>	<b>25.69%</b>	<b>51.06%</b>

#### Quarterly Market Performance (Quarter Ending 03/31/2024)

<b>One Month</b>	<b>Three Months</b>	<b>Six Months</b>	<b>YTD</b>	<b>One Year</b>	<b>Inception</b>
<b>-3.03%</b>	<b>6.15%</b>	<b>20.95%</b>	<b>-2.05%</b>	<b>51.92%</b>	<b>54.14%</b>

#### Top 10 Holdings (Updated as of 06/25/24)

<b>Ticker</b>	<b>Company</b>	<b>% Of Funds</b>	<b>Market Value (\$M)</b>
NVDA	NVIDIA Corp	18.22	7.62
CRWD	CrowdStrike Holdings Inc	9.92	4.15
IOT	Samsara Inc	6.01	2.51
AMD	Advanced Micro Devices Inc	5.93	2.48
ESTC	Elastic NV	5.28	2.21
NET	Cloudflare Inc	5.05	2.11
LLY	Eli Lilly & Co	4.91	2.05
NVO	Novo Nordisk A/S	4.73	1.98
DDOG	Datadog Inc	4.57	1.91
NOW	ServiceNow Inc	4.4	1.84

For more information on LRNZ visit: <https://www.true-shares.com/lrnz/>

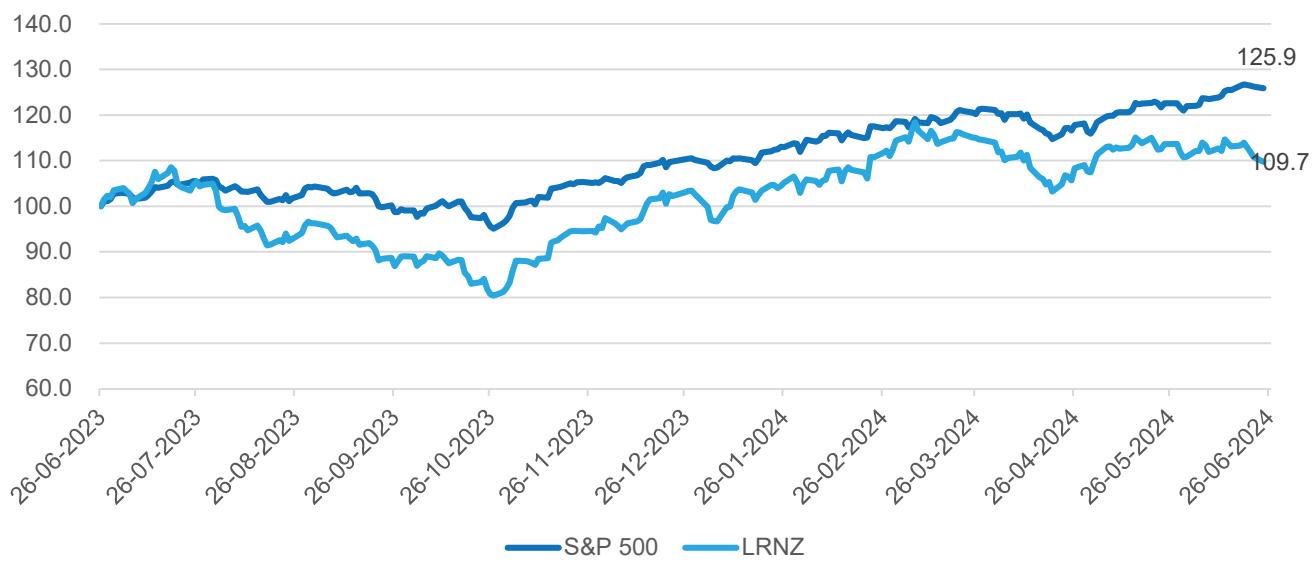
### AI ETFs

#### BOTZ vs. S&P 500



Source: Intro-act, Yahoo! Finance

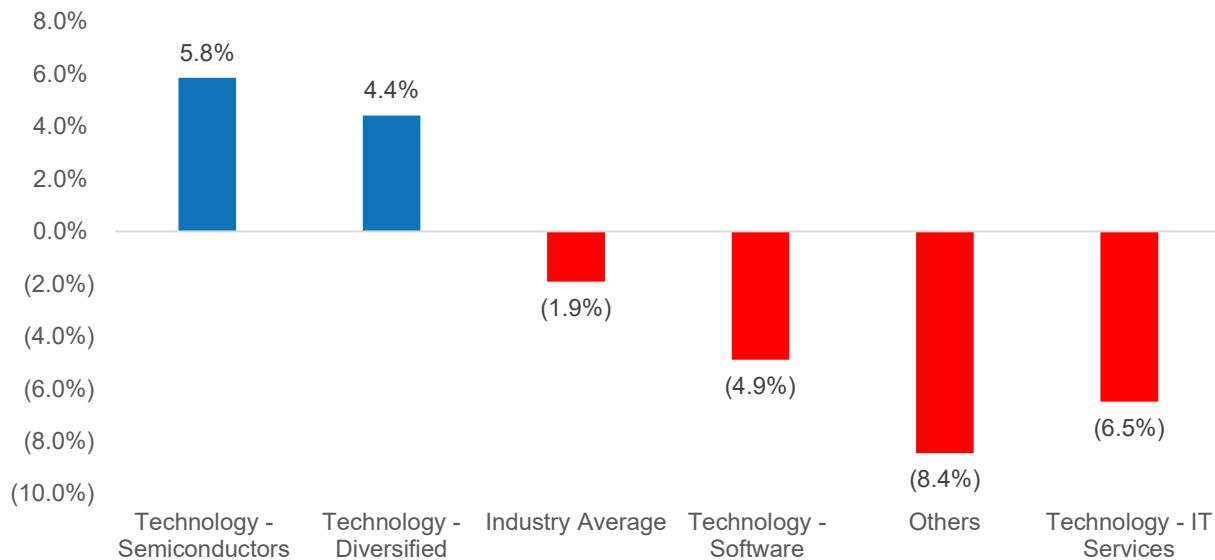
#### LRNZ vs. S&P 500



Source: Intro-act, Yahoo! Finance

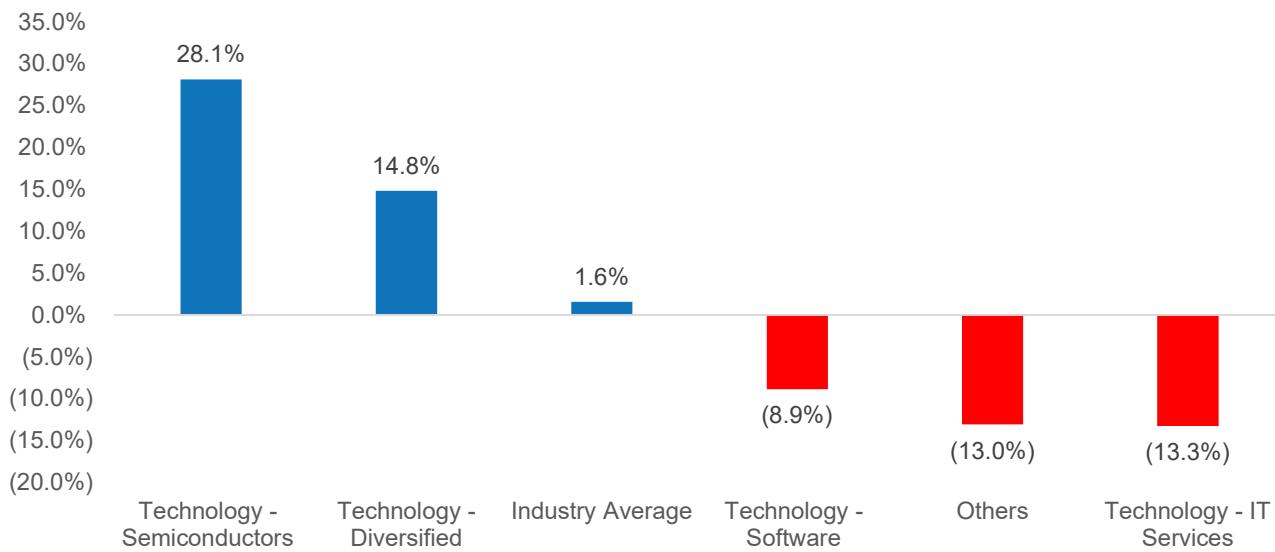
## LEADERS AND LAGGARDS – DISRUPTIVE TECH SEGMENTS

### M/M Returns by DT Segments



Source: Intro-act, FactSet. Data as of June 25, 2024

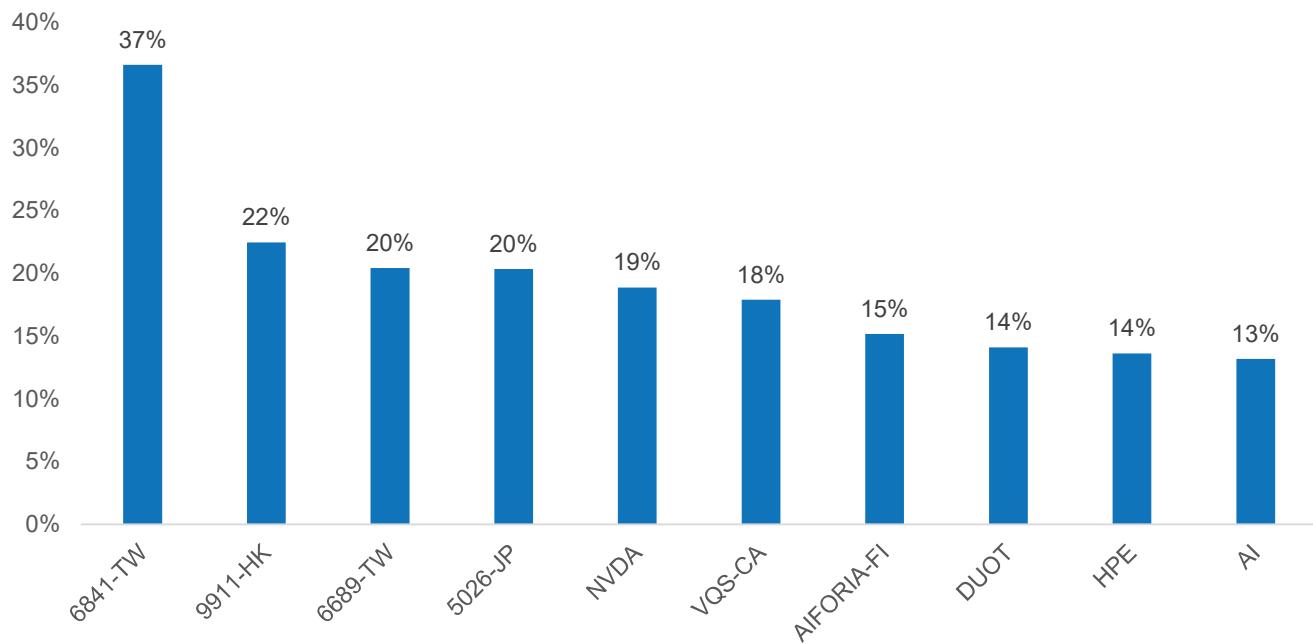
### YTD Returns by DT Segments



Source: Intro-act, FactSet. Data as of June 25, 2024

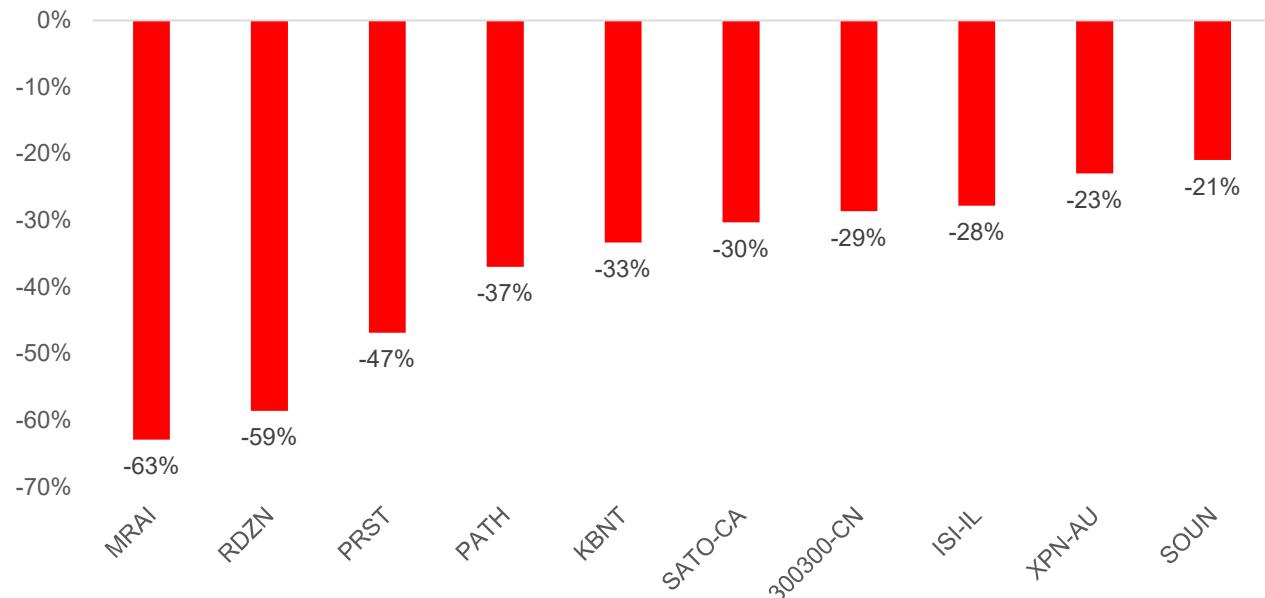
### LEADERS AND LAGGARDS – DISRUPTIVE TECH STOCKS

#### M/M Top 10 Disruptive Tech Gainers



Source: Intro-act, FactSet. Data as of June 25, 2024

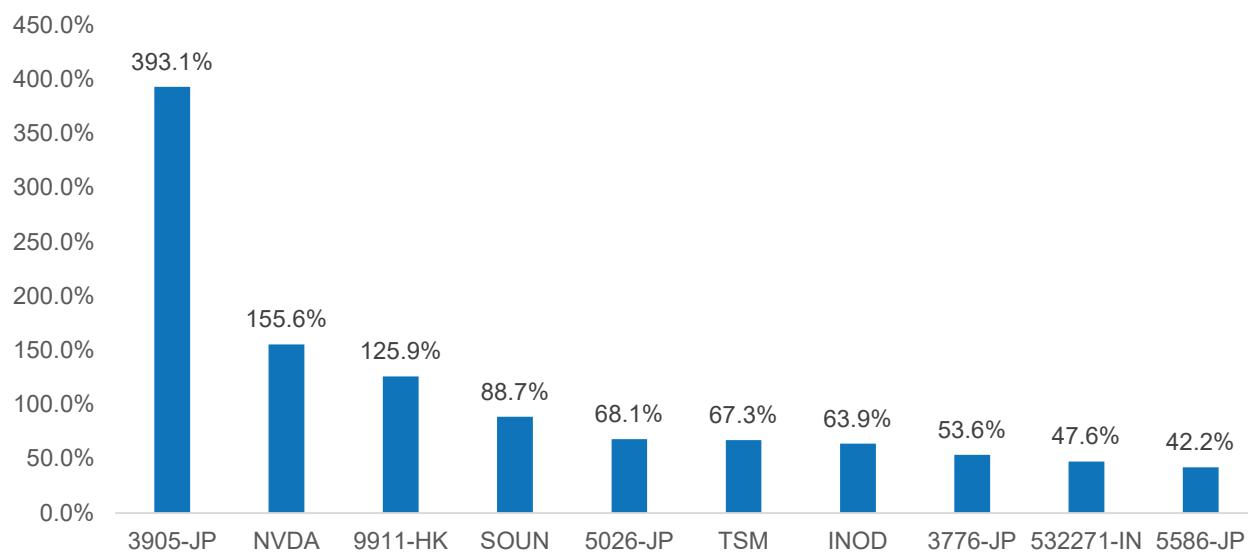
#### M/M Top 10 Disruptive Tech Losers



Source: Intro-act, FactSet. Data as of June 25, 2024

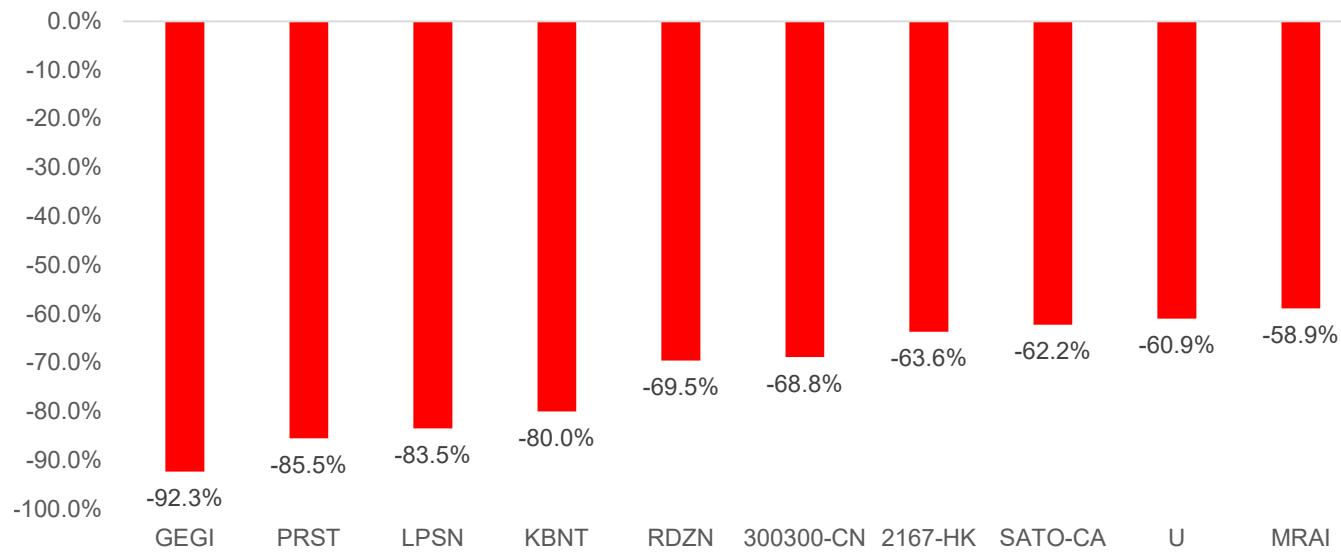
## Disruptive Tech – Monthly AI Update

### YTD Top 10 Disruptive Tech Gainers



Source: Intro-act, FactSet. Data as of June 25, 2024

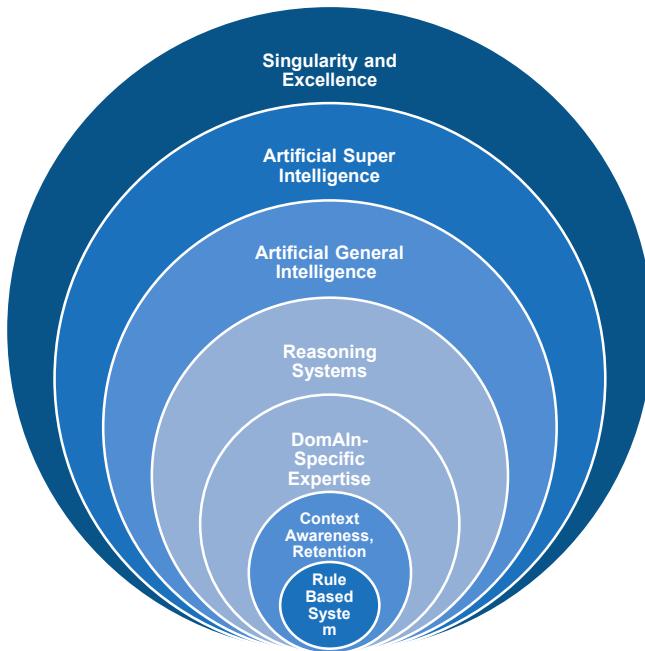
### YTD Top 10 Disruptive Tech Losers



Source: Intro-act, FactSet. Data as of June 25, 2024

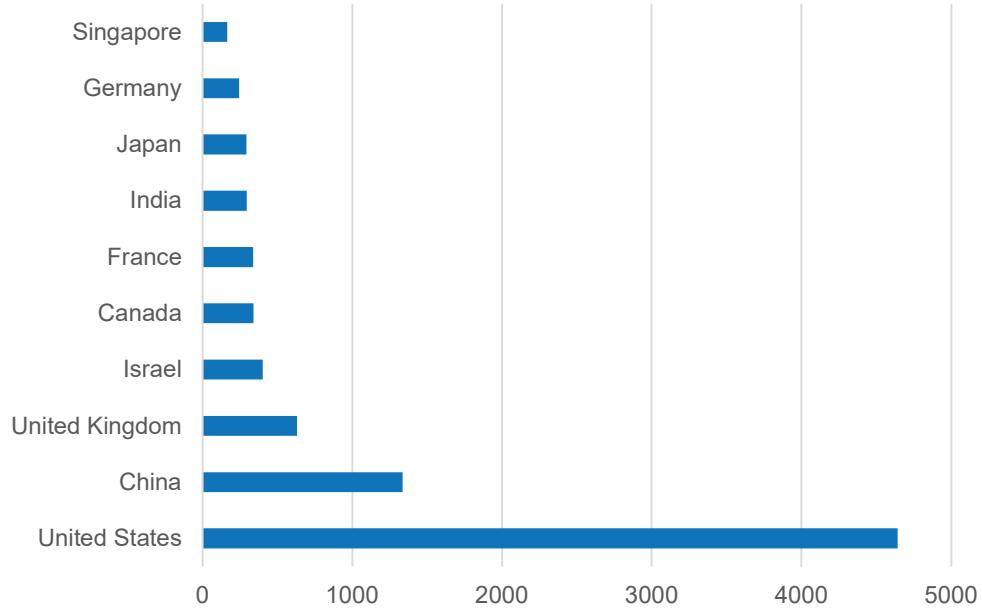
## AI – BACKGROUND

### The Stages of AI



Source: *Intro-act, Record*

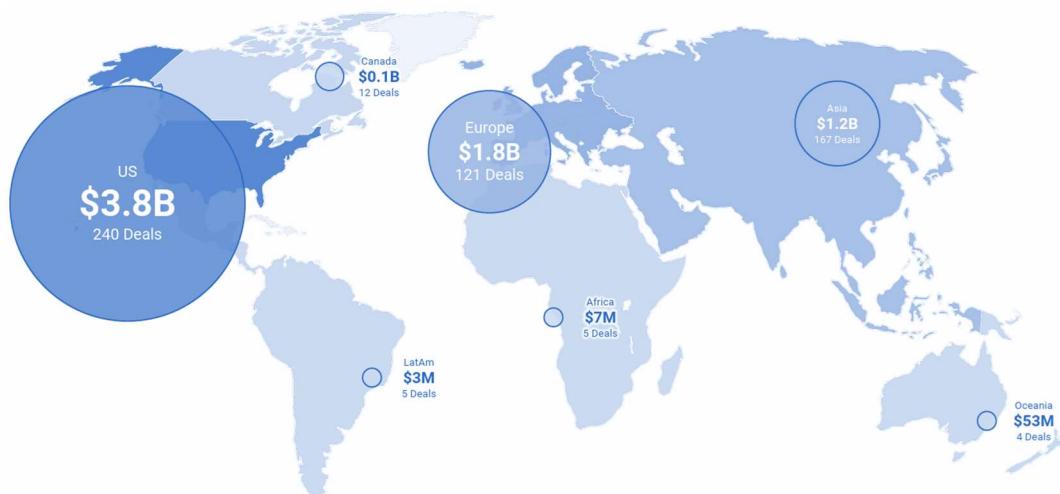
### Countries With the Highest Number of Startups in AI



Source: *Intro-act, Capital Group*

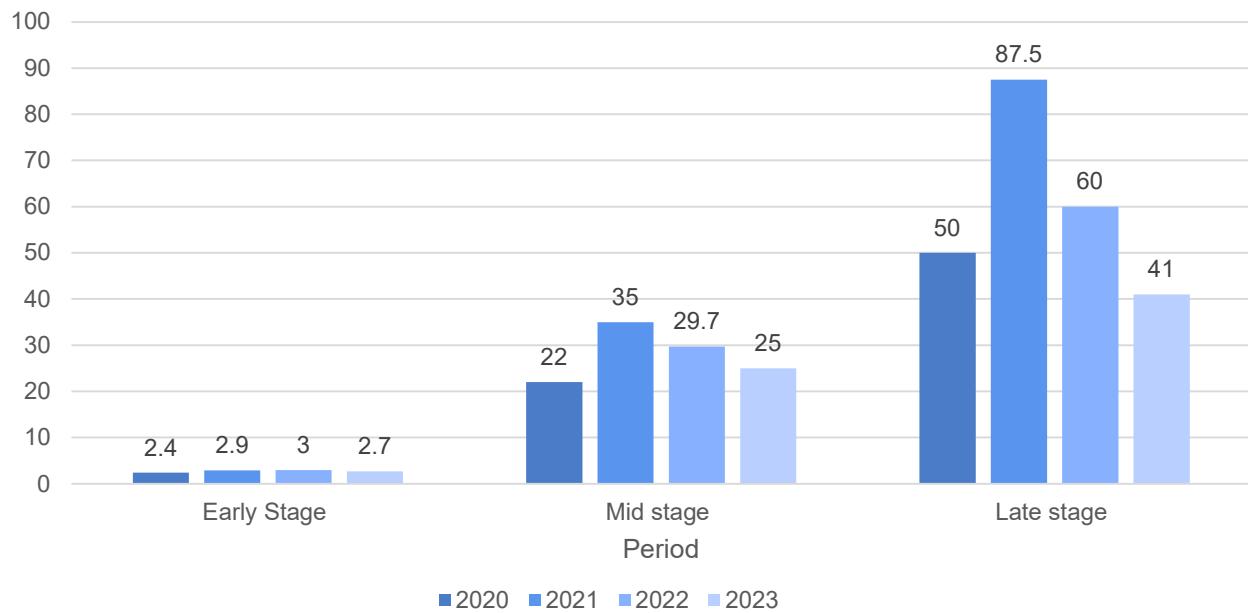
## Disruptive Tech – Monthly AI Update

### Private Investments in AI (in Billion)



Source: Intro-act, CB Insights

### Deal Size Across Stages (In \$ Million)



Source: Intro-act, CB-Insights

## Disruptive Tech – Monthly AI Update

### Disruptive Tech Institutional Owners League (Current)

Rank	Investor Name	# DisruptiveTech Positions	Invested in DisruptiveTech	Q/Q Change Volume	% of Instit Ownership
1	The Vanguard Group, Inc.	83	1,602,985	241,252	11.6%
2	BlackRock Fund Advisors	69	898,337	134,109	6.5%
3	SSgA Funds Management, Inc.	79	743,559	124,221	5.4%
4	Fidelity Management & Research Co. LLC	59	571,968	81,715	4.2%
5	Geode Capital Management LLC	71	390,778	60,445	2.8%
6	T. Rowe Price Associates, Inc. (Investment Management)	41	313,291	32,765	2.3%
7	Norges Bank Investment Management	49	265,819	265,819	1.9%
8	Northern Trust Investments, Inc. (Investment Management)	65	181,718	24,888	1.3%
9	JPMorgan Investment Management, Inc.	51	181,563	21,969	1.3%
10	Berkshire Hathaway, Inc. (Investment Management)	3	177,386	18,091	1.3%
11	Wellington Management Co. LLP	47	146,803	12,579	1.1%
12	Capital Research & Management Co. (World Investors)	31	140,824	21,457	1.0%
13	Capital Research & Management Co. (Global Investors)	21	139,756	23,680	1.0%
14	BlackRock Advisors (UK) Ltd.	59	137,330	21,412	1.0%
15	Capital Research & Management Co. (International Investors)	29	135,523	24,273	1.0%
16	BlackRock Investment Management (UK) Ltd.	59	123,884	16,181	0.9%
17	Charles Schwab Investment Management, Inc.	65	120,579	18,256	0.9%
18	Morgan Stanley Smith Barney LLC (Investment Management)	47	107,223	16,320	0.8%
19	Goldman Sachs Asset Management LP	57	99,265	15,664	0.7%
20	Legal & General Investment Management Ltd.	65	98,989	18,001	0.7%
21	AllianceBernstein LP	55	90,338	14,714	0.7%
22	Parametric Portfolio Associates	49	84,369	10,861	0.6%
23	Massachusetts Financial Services	33	81,385	9,355	0.6%
24	TIAA-CREF Investment Management LLC	57	77,120	9,801	0.6%
25	Jennison Associates LLC	25	75,895	7,259	0.6%
26	Columbia Management Investment Advisers LLC	47	73,954	8,391	0.5%
27	Amundi Asset Management US	41	72,024	8,669	0.5%
28	The Bank of New York Mellon Corp. (Investment Management)	37	71,446	9,323	0.5%
29	Fisher Asset Management LLC	33	70,914	10,875	0.5%
30	Managed Account Advisors LLC	33	69,275	6,615	0.5%
	<b>Other</b>		<b>6,422,639</b>	<b>936,055</b>	<b>46.7%</b>
	<b>Total</b>		<b>13,766,938</b>	<b>2,225,014</b>	

Source: Intro-act, 13F Filings

		6/25/2024	Price Performance							Sales			EBITDA		Book Value			
			Share Price	Mkt Cap (\$ Mns)	Ent Val (\$ Mns)	% to High	% to Low	% YTD	LTM	NTM	EV/Sales	LTM	NTM	EV/EBITDA	Book/Share	P/Book		
<b>Peer Set</b>																		
<b>TECHNOLOGY- DIVERSIFIED</b>																		
1	<a href="#">Apple</a>	AAPL	209.07	3,205,897	3,243,340	5%	-22%	18%	394,328	397,897	8.2 x	130,733	133,599	24.3 x	4.84	43.2 x		
2	<a href="#">Amazon</a>	AMZN	186.34	1,939,171	2,007,353	3%	-36%	12%	513,983	651,967	3.1 x	73,978	140,340	14.3 x	20.83	8.9 x		
3	<a href="#">Meta</a>	META	510.60	1,118,952	1,274,585	4%	-46%	52%	116,609	163,385	7.8 x	52,072	95,393	13.4 x	58.94	8.7 x		
4	<a href="#">Google</a>	GOOGL	184.03	1,080,992	2,194,528	0%	-37%	27%	282,836	354,586	6.2 x	110,155	150,406	14.6 x	23.65	7.8 x		
5	<a href="#">Tesla</a>	TSLA	187.35	597,496	580,984	60%	-26%	-47%	81,464	102,354	5.7 x	19,096	17,106	34.0 x	20.19	9.3 x		
<b>TECHNOLOGY- SEMICONDUCTORS</b>																		
6	<a href="#">Nvidia</a>	NVDA	126.09	3,101,814	3,081,613	12%	-69%	329%	26,974	129,620	23.8 x	10,107	85,779	35.9 x	2.00	63.1 x		
7	<a href="#">TAIWAN SEMI</a>	TSM	172.60	895,229	867,627	7%	-51%	43%	74,351	89,477	9.7 x	51,323	60,807	14.3 x	21.73	7.9 x		
8	<a href="#">ADVANCED MIC</a>	AMD	160.25	259,014	255,977	42%	-42%	11%	23,601	27,218	9.4 x	8,518	9,584	26.7 x	34.73	4.6 x		
9	<a href="#">Intel</a>	INTC	30.74	130,860	166,782	67%	-3%	-40%	63,054	57,924	2.9 x	19,346	16,426	10.2 x	24.89	1.2 x		
10	<a href="#">Teradyne</a>	TER	147.57	23,037	22,372	3%	-45%	-10%	3,155	2,905	7.7 x	978	716	31.3 x	16.64	8.9 x		
11	<a href="#">Ambarella</a>	AMBA	52.82	2,165	1,966	61%	-24%	-74%	338	265	7.4 x	59	(46)	-	13.55	3.9 x		
12	<a href="#">SMART Global</a>	SGH	22.39	1,171	1,515	34%	-43%	-37%	1,819	1,308	1.2 x	270	172	8.8 x	7.75	2.9 x		
13	<a href="#">CEVA</a>	CEVA	18.39	434	281	50%	-11%	-57%	135	108	2.6 x	(0)	17	16.6 x	11.13	1.7 x		
<b>TECHNOLOGY- IT SERVICES</b>																		
14	<a href="#">IBM</a>	IBM	172.60	158,551	202,217	15%	-25%	29%	60,530	63,408	3.2 x	15,838	14,731	13.7 x	25.32	6.8 x		
15	<a href="#">Capgemini SE</a>	CAP-FR	202.78	35,002	37,957	22%	-18%	-17%	23,498	-	-	3,739	-	-	66.26	3.1 x		
16	<a href="#">Elm Company</a>	7203-SA	229.75	18,380	16,954	31%	-33%	-	1,227	-	-	291	-	-	13.88	16.5 x		
17	<a href="#">ArcSoft Corporation</a>	688088-CN	3.76	1,525	1,213	78%	-22%	-45%	77	152	8.0 x	8	-	-	0.93	4.0 x		
18	<a href="#">Northern Data AG</a>	NB2-DE	23.81	1,274		52%	-33%	-39%	-	323	-	-	121	-	-	-		
19	<a href="#">BigBear.ai Hol</a>	BBAI	1.35	332	459	255%	-14%	-76%	155	201	2.3 x	(17)	(3)	-	0.44	3.1 x		

## Disruptive Tech – Monthly AI Update

20	Innodata	INOD	14.16	407	393	19%	-61%	139%	-	132	3.0 x	-	-	-	0.96	14.8 x
21	NSW	9739-JP	20.76	309	187	10%	-21%	4%	339	-	-	-	-	-	14.17	1.5 x
22	GMO GlobalSign	3788-JP	19.16	224	191	24%	-18%	-46%	120	-	-	-	-	-	4.87	3.9 x
23	FiscalNote Hold	NOTE	1.44	182	331	213%	-55%	-85%	116	126	2.6 x	(24)	9	35.2 x	0.81	1.8 x
24	FRONTEO	2158-JP	3.98	157	166	53%	-9%	-86%	53	-	-	-	-	-	0.46	8.7 x
25	Neural Group	4056-JP	5.91	91	100	116%	-6%	-54%	22	-	-	-	-	-	0.23	25.5 x
26	Appen Limited	APX-AU	0.31	68	48	447%	-45%	-96%	389	-	-	11	-	-	0.43	0.7 x
27	Metareal	6182-JP	6.35	68	58	150%	-5%	-51%	32	-	-	-	-	-	0.99	6.4 x
28	Japan Data Science Cons	4418-JP	4.56	61	56	119%	-5%	-75%	11	-	-	-	-	-	1.68	2.7 x
29	Tripleize	5026-JP	7.86	58	60	44%	-47%	-	16	-	-	-	-	-	0.57	13.8 x
30	AR advanced technology	5578-JP	11.83	39	31	192%	-3%	-	-	-	-	-	-	-	3.46	3.4 x
31	PBT Group	PBG-ZA	0.34	36	47	34%	-3%	-46%	-	-	-	-	-	-	0.13	2.7 x
32	JTP Co.	2488-JP	6.02	36	16	28%	-6%	16%	-	-	-	-	-	-	3.73	1.6 x
33	EarthLabs	SPOT-CA	0.13	18	(13)	52%	-21%	-82%	-	-	-	-	-	-	0.24	0.5 x
34	MEDIASEEK	4824-JP	2.11	21	18	24%	-13%	-34%	6	-	-	-	-	-	2.09	1.0 x
TECHNOLOGY- SOFTWARE																
35	Microsoft	MSFT	450.95	3,351,598	3,377,808	0%	-31%	34%	198,270	269,090	12.6 x	98,588	144,988	23.3 x	34.06	13.2 x
36	Hewlett Packard Enterprise Compa	HPE	21.12	27,449	35,836	8%	-32%	34%	28,496	31,060	1.2 x	5,212	5,824	6.2 x	16.70	1.3 x
37	iflytek Co	002230-CN	5.72	12,485	14,282	99%	-9%	-31%	2,731	3,633	3.9 x	262	335	42.6 x	1.00	5.7 x
38	Juniper Networks	JNPR	35.48	11,531	11,996	7%	-30%	-1%	5,301	5,200	2.3 x	1,033	1,059	11.3 x	13.79	2.6 x
39	UiPath	PATH	11.93	5,850	4,968	134%	-7%	-72%	1,059	1,438	3.5 x	72	153	32.6 x	3.54	3.4 x
40	Open Text Corporation	OTEX-CA	29.75	8,119	15,655	50%	-7%	-37%	3,494	5,438	2.9 x	1,265	1,783	8.8 x	15.04	2.0 x
41	UNITY SOFTWARE INC	U	16.02	6,262	7,685	213%	-5%	-89%	1,391	1,859	4.1 x	(51)	448	17.2 x	8.16	2.0 x
42	CCC Intelligent SolutionHoldings	CCCS	11.48	7,135	7,823	17%	-10%	1%	782	970	8.1 x	305	402	19.5 x	2.90	4.0 x
43	AppFolio	APPF	238.62	5,328	8,442	8%	-32%	97%	472	805	10.5 x	19	210	40.1 x	9.37	25.5 x
44	SenseTime Group	20-HK	0.18	4,552	5,192	62%	-58%	-75%	553	-	-	(572)	-	-	0.10	1.8 x

## Disruptive Tech – Monthly AI Update

45	<a href="#">C3.ai,</a>	AI	27.47	3,333	2,737	63%	-26%	-12%	267	383	7.1 x	(62)	(95)	-	7.06	3.9 x
46	<a href="#">Beijing Ultrapower Soft</a>	300002-CN	1.08	1,974	1,775	104%	-1%	10%	694	-	-	159	-	-	0.43	2.5 x
47	<a href="#">BlackBerry</a>	BB-CA	2.24	1,322	1,337	157%	-1%	-76%	656	584	2.3 x	(71)	2	561.0 x	1.31	1.7 x
48	<a href="#">TRS Information Technology</a>	300229-CN	1.73	1,380	1,321	179%	-23%	7%	132	-	-	38	-	-	0.59	3.0 x
49	<a href="#">SoundHound AI</a>	SOUN	3.92	1,162	1,171	161%	-62%	-	31	76	15.4 x	(73)	(29)	-	0.48	8.2 x
50	<a href="#">PROS Holdings</a>	PRO	28.30	1,330	1,498	45%	-7%	-18%	276	343	4.4 x	(15)	21	70.0 x	(1.79)	-15.8 x
51	<a href="#">Esker SA</a>	ALESK-FR	191.33	1,159	1,090	15%	-40%	-52%	173	-	-	35	-	-	19.96	9.6 x
52	<a href="#">Nagarro SE</a>	NA9-DE	80.74	1,112	1,284	27%	-17%	-64%	908	-	-	156	-	-	16.62	4.9 x
53	<a href="#">Beijing Fourth ParadiTechnology</a>	6682-HK	6.40	866	2,580	130%	-26%	-	-	-	-	-	-	-	1.62	4.0 x
54	<a href="#">Business-Intelligence of Or</a>	300166-CN	0.82	756	972	121%	-3%	-51%	331	-	-	10	-	-	0.73	1.1 x
55	<a href="#">Appier Group</a>	4180-JP	7.58	774	705	79%	-3%	-34%	146	-	-	10	-	-	1.95	3.9 x
56	<a href="#">Bouvet ASA</a>	BOUV-NO	5.98	615	598	7%	-22%	-30%	299	-	-	47	-	-	0.50	11.9 x
57	<a href="#">Newborn Town</a>	9911-HK	0.57	674	573	3%	-70%	22%	410	-	-	47	-	-	0.14	4.2 x
58	<a href="#">Shenzhen Sunwin Intelligent</a>	300044-CN	0.54	413	460	114%	-20%	4%	-	-	-	-	-	-	0.12	4.7 x
59	<a href="#">Bairong</a>	6608-HK	1.16	479	664	64%	-11%	-13%	301	-	-	35	-	-	1.33	0.9 x
60	<a href="#">Linkage Software</a>	688588-CN	0.97	387	307	163%	-2%	-58%	95	-	-	-	-	-	0.42	2.3 x
61	<a href="#">Beijing Deep Glint Technology</a>	688207-CN	1.54	398	170	159%	-10%	-	-	-	-	-	-	-	1.20	1.3 x
62	<a href="#">Wisesoft.</a>	002253-CN	1.40	316	323	66%	-25%	-50%	-	-	-	-	-	-	0.73	1.9 x
63	<a href="#">SELVAS</a>	108860-KR	11.03	297	332	97%	-1%	16%	-	-	-	-	-	-	3.41	3.2 x
64	<a href="#">Sidetrade SA</a>	ALBFR-FR	190.48	280	248	16%	-27%	4%	40	-	-	4	-	-	24.36	7.8 x
65	<a href="#">QingCloud Tech</a>	688316-CN	3.98	190	185	139%	-16%	-49%	-	-	-	-	-	-	0.50	8.0 x
66	<a href="#">CyberLink</a>	5203-TW	3.22	254	188	12%	-21%	0%	55	68	2.8 x	8	-	-	1.82	1.8 x
67	<a href="#">Datasection</a>	3905-JP	11.29	194	196	80%	-84%	283%	14	-	-	5	-	-	0.73	15.6 x
68	<a href="#">eCloudvalley DigitalTechnology</a>	6689-TW	3.30	224	162	49%	-18%	-65%	293	-	-	7	-	-	1.35	2.5 x
69	<a href="#">Computer Institute of Japan</a>	4826-JP	2.98	199	115	127%	-25%	65%	159	-	-	-	-	-	1.60	1.9 x
70	<a href="#">ABEJA,</a>	5574-JP	19.04	174	151	243%	-11%	-	-	-	-	-	-	-	2.62	7.3 x

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71	Perfect Corp	PERF	1.89	161	36	167%	-7%	-81%	47	63	0.6 x	13	-	-	1.38	1.4 x
72	JIG-SAW	3914-JP	25.42	172	162	78%	-10%	-53%	23	-	-	-	-	-	2.70	9.4 x
73	Strait Innovation Internet	300300-CN	0.16	109	174	411%	-2%	-78%	-	-	-	-	-	-	0.03	5.0 x
74	JLK	322510-KR	11.42	185	192	161%	-43%	82%	-	-	-	-	-	-	0.41	27.9 x
75	Headwaters	4011-JP	71.88	136	130	91%	-45%	257%	12	-	-	-	-	-	3.55	20.3 x
76	Laboro	5586-JP	7.53	120	107	171%	-42%	-	-	-	-	-	-	-	0.92	8.2 x
77	Cyber Security Cloud	4493-JP	13.83	131	122	62%	-7%	-3%	17	-	-	-	-	-	0.88	15.7 x
78	Almawave SpA	AIW-IT	4.71	140	134	24%	-15%	-14%	52	-	-	10	-	-	2.55	1.8 x
79	AI inside	4488-JP	31.28	125	105	142%	-11%	-39%	28	-	-	5	-	-	8.00	3.9 x
80	Spyrosoft	SPR-PL	102.46	112	118	43%	-15%	92%	-	-	-	-	-	-	20.43	5.0 x
81	HEROZ	4382-JP	7.66	115	105	115%	-3%	-33%	21	-	-	4	-	-	2.03	3.8 x
82	pluszero,	5132-JP	13.24	102	96	55%	-24%	-	-	-	-	-	-	-	0.84	15.7 x
83	Avant Technologies	AVAI	0.93	79	80	113%	-93%	-7%	-	-	-	-	-	-	(0.02)	-54.9 x
84	Loihde Oyj	LOIHDE-FI	12.73	73	66	34%	-13%	-30%	131	-	-	14	-	-	19.07	0.7 x
85	LivePerson	LPSN	0.57	51	438	1016%	-22%	-98%	515	297	1.5 x	(16)	19	22.7 x	0.22	2.6 x
86	Asteria Corporation	3853-JP	3.54	62	52	79%	-7%	-62%	25	-	-	-	-	-	2.11	1.7 x
87	VAIV Co.	301300-KR	3.90	48	68	113%	-2%	-83%	-	-	-	-	-	-	3.74	1.0 x
88	Ridge-i	5572-JP	14.15	55	42	54%	-33%	-	-	-	-	-	-	-	3.48	4.1 x
89	TI Cloud	2167-HK	0.28	49	1	480%	-75%	-	56	-	-	(1)	-	-	0.38	0.7 x
90	Aidemy	5577-JP	10.58	42	35	279%	-17%	-	12	-	-	-	-	-	1.76	6.0 x
91	Intumit	7547-TW	1.46	42	32	10%	-23%	2%	-	-	-	-	-	-	0.55	2.6 x
92	EDGE Technology	4268-JP	3.53	38	34	115%	-13%	-	-	-	-	-	-	-	0.40	8.8 x
93	monoAI technology	5240-JP	3.89	41	36	137%	-29%	-	11	-	-	-	-	-	0.68	5.7 x
94	Brains Technology	4075-JP	4.77	27	18	131%	-21%	-74%	7	-	-	-	-	-	1.76	2.7 x
95	GLAD CUBE	9561-JP	3.74	31	26	44%	-19%	-	11	-	-	-	-	-	1.05	3.6 x
96	SecondEight Ana	5028-JP	2.62	22	18	127%	-6%	-	7	-	-	-	-	-	0.54	4.9 x

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97	<a href="#">WebComm Tech</a>	6865-TW	1.64	24	23	68%	-10%	-64%	-	-	-	-	-	-	0.74	2.2 x
98	<a href="#">Presto Automati</a>	PRST	0.09	14	68	6498%	-21%	-99%	-	-	-	-	-	-	(0.57)	-0.2 x
99	<a href="#">Duos Technologie</a>	DUOT	2.62	20	22	175%	-26%	-49%	15	17	1.3 x	(6)	(5)	-	0.75	3.5 x
100	<a href="#">SenSen Networks</a>	SNS-AU	0.01	11	11	198%	-20%	-87%	6	-	-	(5)	-	-	0.01	2.4 x
101	<a href="#">sMedio</a>	3913-JP	3.98	9	3	87%	-12%	-30%	6	-	-	-	-	-	3.10	1.3 x
102	<a href="#">Orchasp Limited</a>	532271-IN	0.04	7	10	100%	-38%	-62%	-	-	-	-	-	-	0.09	0.4 x
103	<a href="#">VIQ Solutions</a>	VQS-CA	0.17	9	21	125%	-52%	-93%	46	-	-	(3)	-	-	0.10	1.7 x
104	<a href="#">Munic SA</a>	ALMUN-FR	0.50	5	8	568%	-13%	-84%	23	-	-	2	-	-	1.50	0.3 x
105	<a href="#">infinitii ai</a>	IAI-CA	0.03	4	5	169%	-45%	-24%	-	-	-	-	-	-	(0.01)	-5.5 x
106	<a href="#">XPON Technologies</a>	XPN-AU	0.01	4	2	340%	-50%	-93%	9	-	-	(3)	-	-	(0.00)	-3.7 x
107	<a href="#">VSBLY Groupe Tech</a>	VSBY-CA	0.05	2	2	1809%	-8%	-99%	2	-	-	-	-	-	(0.05)	-1.0 x
108	<a href="#">Genesis Electronics Group</a>	GEGI	0.00	0	3	6100%	0%	-94%	-	-	-	-	-	-	-	-
109	<a href="#">Kubient</a>	KBNT	0.00	0	(12)	414900%	-100%	-100%	2	-	-	(13)	-	-	0.72	0.0 x
<b>OTHERS</b>																
110	<a href="#">Coinbase Global</a>	COIN	221.71	44,288	51,346	28%	-75%	-12%	3,194	5,784	8.9 x	(371)	2,645	19.4 x	32.89	6.7 x
111	<a href="#">Block</a>	SQ	64.02	35,630	36,970	37%	-39%	-60%	17,532	25,648	1.4 x	991	2,891	12.8 x	30.74	2.1 x
112	<a href="#">Temenos AG</a>	TEMN-CH	69.20	5,202	5,585	50%	-16%	-48%	950	1,067	5.2 x	366	428	13.1 x	10.11	6.8 x
113	<a href="#">nCino, Inc.</a>	NCNO	31.50	3,625	3,626	19%	-14%	-43%	408	560	6.5 x	9	103	35.1 x	9.30	3.4 x
114	<a href="#">Upstart Holdings</a>	UPST	22.56	1,983	2,737	222%	-12%	-85%	842	592	4.6 x	37	(17)	-	6.98	3.2 x
115	<a href="#">MTI</a>	9438-JP	5.86	359	276	1%	-38%	22%	187	-	-	-	-	-	1.74	3.4 x
116	<a href="#">Roadzen</a>	RDZN	2.01	138	146	746%	-23%	-	-	74	2.0 x	-	(5)	-	(0.01)	-142.1 x
117	<a href="#">Ever Fortune.AI</a>	6841-TW	3.56	351	301	33%	-28%	-31%	-	-	-	-	-	-	0.61	5.8 x
118	<a href="#">SOS Ltd.</a>	007VFG-E	0.79	236	144	1103%	-5%	-99%	-	-	-	-	-	-	0.70	1.1 x
119	<a href="#">Imagesat International</a>	ISI-IL	2.75	168	171	47%	-20%	-	-	80	2.1 x	-	32	5.3 x	2.63	1.0 x
120	<a href="#">Qudian</a>	0HF1H0-E	2.02	254	(963)	29%	-25%	91%	84	-	-	-	-	-	11.56	0.2 x
121	<a href="#">FreeBit Co</a>	3843-JP	8.02	188	154	43%	-18%	7%	335	-	-	-	-	-	3.75	2.1 x

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122	<a href="#">RocKontrol Technology Group Co</a>	688051-CN	2.22	171	170	151%	-12%	-70%	-	-	-	-	-	-	1.45	1.5 x
123	<a href="#">Deepnoid</a>	315640-KR	6.03	135	118	105%	-35%	-17%	-	-	-	-	-	-	0.82	7.3 x
124	<a href="#">Aiforia Technologies Oyj</a>	AIFORIA-FI	4.99	144	135	14%	-33%	-16%	2	-	-	(9)	-	-	0.75	6.7 x
125	<a href="#">Broadband Tower</a>	3776-JP	1.44	89	92	41%	-47%	-14%	-	-	-	-	-	-	0.87	1.7 x
126	<a href="#">Laon People</a>	300120-KR	4.43	92	104	61%	-12%	-43%	-	-	-	-	-	-	1.49	3.0 x
127	<a href="#">Acer Medical</a>	6857-TW	5.36	82	75	79%	-54%	63%	-	-	-	-	-	-	0.45	11.9 x
128	<a href="#">ContextVision AB</a>	CONTX-NO	0.54	42	36	61%	-2%	-71%	11	-	-	5	-	-	0.11	5.0 x
129	<a href="#">Renalytix Plc</a>	RENX-GB	0.18	28	33	970%	-31%	-98%	3	5	7.3 x	(50)	-	-	(0.09)	-2.0 x
130	<a href="#">Silver Egg Technology</a>	3961-JP	6.54	19	12	113%	-22%	-22%	9	-	-	-	-	-	3.00	2.2 x
131	<a href="#">Marpai</a>	MRAI	0.82	8	(1)	322%	-60%	-95%	24	-	-	(20)	-	-	(1.41)	-0.6 x
132	<a href="#">Mynet</a>	3928-JP	2.15	19	19	64%	-15%	-58%	78	-	-	-	-	-	0.99	2.2 x
133	<a href="#">Institution for a Global Society</a>	4265-JP	2.66	12	8	61%	-13%	-81%	5	-	-	-	-	-	1.43	1.9 x
134	<a href="#">SATO Technologies</a>	SATO-CA	0.15	8	11	210%	-5%	-79%	8	-	-	-	-	-	0.11	1.4 x
135	<a href="#">StreaksAI</a>	STK-GB	0.01	2	1	58470%	30239%	-95%	-	-	-	-	-	-	0.00	1.6 x

Data updated as of 2024/06/25.

\*Companies for which quarterly NTM and LTM data is not available, yearly numbers are used.

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