# NEWMIND AI JOURNAL WEEKLY CHRONICLES

2.6.2025 - 9.6.2025

- The first week of June 2025 proved exceptionally fertile for the AI ecosystem, spanning frontier research, infrastructure, policy, and commercial deployment. From ElevenLabs' Conversational AI 2.0 to Apple's on-device Foundation Models and the UK's push for "sovereign AI," the period captured both the lightning pace of technical progress and the widening array of real-world impacts.

- Research breakthroughs ranged from training-free acceleration of diffusion LLMs to new reinforcement-learning frameworks—ARIA, Critique-GRPO, and SRPO—that blend numerical rewards with natural-language critiques. This highlights a deepening focus on scalable alignment and more efficient reasoning across modalities and tasks.

- Infrastructure advances matched the momentum: CoreWeave's $7 billion data-center lease, Broadcom's 102.4 Tbps Tomahawk 6 switch, and NVIDIA's AI Blueprint for fraud detection each reflect how capital intensity and hardware innovation are redefining the boundaries of modern AI workloads.

- Open ecosystems surged ahead as well. Releases such as SmolVLA for low-cost robotics, Qwen3's embedding and reranker suites, and Google's DeepResearch agent (built on Gemini 2.5 and LangGraph) underscore how community-driven efforts remain a vital counterbalance to closed, proprietary systems.

- Geopolitical and regulatory activity also accelerated. Anthropic's "Claude Gov" tailored for U.S. classified applications, the FCA–NVIDIA "Supercharged Sandbox," and France's €410 million bid for Atos's HPC division reveal how nations are making strategic investments in AI oversight and capability.

- Finally, AI diffusion into real-world verticals picked up pace. From Intel-powered precision agriculture to LawZero in legal tech (with backing from Yoshua Bengio) and Meta's plan to fully automate advertising by 2026, the signals are clear: generative and agentic systems are now moving beyond research into reshaping core industry operations.

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| # | Highlights | Summary | Author | Source | Date |
| 1.1 | **ElevenLabs Unveils Conversational AI 2.0 with Advanced Turn-Taking and Multilingual Capabilities** | ElevenLabs has launched Conversational AI 2.0, a significant upgrade to its voice assistant platform aimed at enterprise applications like customer support and sales. Key enhancements include a sophisticated turn-taking model that interprets conversational cues—such as hesitations and filler words—in real-time, allowing the AI to manage natural dialogue flow without awkward pauses or interruptions. The update also introduces integrated language detection for seamless multilingual interactions and a Retrieval-Augmented Generation (RAG) system that enables instant access to external knowledge bases, enhancing the AI's responsiveness and accuracy. | By Carl Franzen |  | May 30, 2025 |
| 1.2 | **Token Monster Debuts Multi-LLM Orchestration Platform** | Token Monster, developed by Matt Shumer, has launched its alpha preview, offering a platform that dynamically routes user prompts to the most suitable large language models (LLMs) for specific tasks. By integrating models like Anthropic's Claude 3.5, OpenAI's GPT-4.1 and GPT-4o, Google's Gemini 2.5 Pro, and Perplexity AI's PPLX, the system combines their strengths to generate comprehensive responses. Features include file uploads, webpage extraction, and persistent sessions. The platform utilizes OpenRouter for seamless access to multiple LLMs, aiming to simplify user interactions by automating model selection and response generation. | By Carl Franzen |  | May 30, 2025 |
| 1.3 | **Fast-dLLM: Training-Free Acceleration of Diffusion LLMs via KV Cache & Parallel Decoding** | Fast-dLLM, introduced on May 28, 2025, is a novel training-free framework designed to accelerate Diffusion-based LLMs—offering them capabilities similar to autoregressive models. By enabling key-value (KV) caching and parallel token decoding, Fast-dLLM achieves up to 27.6× throughput improvements with minimal accuracy loss across standard LLM benchmarks—greatly narrowing the performance gap with conventional | By Nvidia |  | May 30, 2025 |

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| | | autoregressive counterparts. Developed by a collaboration between The University of Hong Kong, NVIDIA, MIT, and independent researchers, this work marks a key milestone toward practical deployment of Diffusion LLMs. | | | |
| 1.4 | **Yandex Releases Yambda, the Largest Event Dataset to Boost Recommender Systems** | Yandex has launched *Yambda*, the world's largest publicly available event dataset aimed at advancing recommender system research. The dataset contains billions of user interactions across multiple domains, including e-commerce, media, and social platforms. By providing this vast, diverse data, Yandex intends to improve the training and evaluation of AI models for personalized recommendations. Yambda will help researchers and developers create more accurate, scalable, and efficient recommender systems, fostering innovation and enhancing user experience in various digital services worldwide. | By Yandex |  | June 1, 2025 |
| 1.5 | **Co-Evolving LLM Coder and Unit Tester via Reinforcement Learning** | Co-Evolving LLM Coder and Unit Tester via Reinforcement Learning introduces CURE, a framework that jointly trains a code generator and a unit test writer using reinforcement learning—without needing ground-truth solutions. The system evolves both components together, using test results as feedback. CURE improves performance by reusing generated tests across multiple candidate solutions and selecting the best-performing code using a Best-of-N strategy. Trained on just 4.5K problems, the resulting ReasonFlux-Coder outperforms existing models like Qwen-Coder and DeepSeek-Coder, achieving significant accuracy gains. This approach enables scalable, test-driven, and autonomous LLM-based coding systems. | By Yinjie Wang, et al. |  | June 3, 2025 |

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| # | Highlights | Summary | Author | Source | Date |
| 1.6 | **Multimodal DeepResearcher: Generating Text-Chart Interleaved Reports From Scratch with Agentic Framework** | Multimodal DeepResearcher: Generating Text-Chart Interleaved Reports From Scratch with Agentic Framework" presents a novel framework for generating comprehensive, multimodal reports that seamlessly integrate text and charts. The system leverages a structured planning approach and introduces a new representation format called Formal Description of Visualization (FDV) to guide chart generation. Using an agent-based architecture, DeepResearcher plans, researches, and composes entire reports automatically. This method enhances interpretability and factual accuracy, offering significant improvements over traditional text-only generation. The approach supports applications in data analysis, financial reporting, and scientific writing where visual and textual clarity are critical. | By Zhaorui Yang, et al. |  | June 3, 2025 |
| 1.7 | **SmolVLA: A Compact Vision-Language-Action Model for Efficient Robotics** | SmolVLA is an open-source, compact vision-language-action (VLA) model developed by Hugging Face's LeRobot team. With 450 million parameters, it is designed to run on consumer-grade hardware, including CPUs and single GPUs. Trained exclusively on community-contributed robotics datasets, SmolVLA demonstrates competitive performance in both simulated and real-world tasks, outperforming larger models in efficiency and generalization. Key features include asynchronous inference for faster response times and a lightweight architecture optimized for real-time robotic control. The model is available for fine-tuning and deployment through the LeRobot library. | By Hugging Face |  | June 2, 2025 |

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| # | Highlights | Summary | Author | Source | Date |
| 1.8 | **China's AI Labs Narrow Gap with U.S., DeepSeek Rises to Global No. 2** | Artificial Analysis' Q2 2025 State of AI report reveals that Chinese AI labs have significantly narrowed the performance gap with U.S. counterparts. Notably, DeepSeek's R1-0528 model has ascended to the second position globally, surpassing major players like Google and Meta. This advancement underscores China's growing prowess in AI research and development. The report also highlights the increasing adoption of open-weight models in China, with DeepSeek's R1 series leading the charge. These developments indicate a shift towards more transparent and accessible AI technologies in the region | By Artificial Analysis |  | June 2, 2025 |
| 1.9 | **Rex-Thinker: Grounded Object Referring via Chain-of-Thought Reasoning** | Object referring detects objects in images matching natural language descriptions. A robust model should be verifiable—providing interpretable reasoning linked to visual evidence—and trustworthy—able to abstain if no match exists. Most methods lack interpretability and struggle with unmatched expressions. We propose Rex-Thinker, which treats referring as a step-by-step chain-of-thought (CoT) reasoning task, assessing each candidate object before predicting. Using a large CoT-style dataset, Rex-Thinker is trained via supervised fine-tuning and reinforcement learning, achieving superior precision, interpretability, and generalization, while reducing hallucinated predictions compared to standard baselines. | By Qing Jiang, et al. |  | June 5, 2025 |
| 1.10 | **Ψ-Sampler: Initial Particle Sampling for SMC-Based** | They present Ψ-Sampler, an SMC-based framework using pCNL for initial particle sampling to improve inference-time reward alignment in score- | By Taehoon Yoon, et al. |  | June 2, 2025 |

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| # | **Highlights** | **Summary** | **Author** | **Source** | **Date** |
| | **Inference-Time Reward Alignment in Score Models** | based generative models. Unlike prior methods that sample from a Gaussian prior, Ψ-Sampler initializes particles from a reward-aware posterior, boosting sampling efficiency and alignment performance. The pCNL algorithm combines gradient-informed dynamics with dimension-robust proposals, enabling scalable sampling in high-dimensional latent spaces. Experiments demonstrate consistent performance gains across various reward alignment tasks, such as layout-to-image generation, quantity-aware generation, and aesthetic-preference generation, highlighting the effectiveness and versatility of our approach. | | | |
| 1.11 | Qwen3 Embedding & Reranker Series from Alibaba Qwen Team | Alibaba's Qwen Team has published the **Qwen3 Embedding** and **Qwen3 Reranker** families—specialized models for multilingual text embedding, retrieval, and reranking. Available in 0.6B, 4B, and 8B parameter sizes, these models leverage Qwen3 foundation LLMs with enhanced training through multi-stage contrastive pre-training on synthetic data, supervised fine-tuning, and model-merging strategies. The 8B embedding model leads the MTEB multilingual leaderboard (score 70.58, June 5 2025), while the reranker variants consistently outperform baselines on retrieval benchmarks. Open-sourced under Apache 2.0 on Hugging Face, GitHub, and ModelScope, these models support 100+ languages, flexible vector dimensions, and user-defined instructions, making them powerful tools for document retrieval, classification, RAG, code search, and clustering | By Qwen Team |  | June 4, 2025 |

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| # | Highlights | Summary | Author | Source | Date |
| 1.12 | **Diagonal Batching Unlocks Parallelism in Recurrent Memory Transformers for Long Contexts** | The paper introduces Diagonal Batching, a technique to improve parallelism in Recurrent Memory Transformers (RMTs) for processing extremely long text sequences up to 131,072 tokens. This method enables efficient GPU usage by allowing segment-wise parallel computation, significantly speeding up inference. Experiments on the LLaMA-1B ARMT model show a 3.3x speed increase over standard full-attention LLaMA and 1.8x over prior RMT implementations, while reducing memory usage by 167.1%. Tested on NVIDIA A100 GPUs, Diagonal Batching enhances long-context NLP tasks by enabling faster, more scalable transformer processing without sacrificing performance. | By Danil Sivtsov, et al. | | June 5, 2025 |
| 1.13 | **Apple Unveils STARFlow: Rival to DALL·E and Midjourney** | Apple's researchers revealed today that they have developed **STARFlow**, a novel image-generation system that merges normalizing flows with autoregressive transformers—marking the first time such flows have been successfully scaled to high-resolution image synthesis. The model operates in the latent space of pretrained autoencoders, using a "deep-shallow" transformer architecture to achieve competitive performance with leading diffusion-based models like DALL·E and Midjourney. Unlike denoising diffusion approaches, STARFlow supports exact maximum-likelihood training without discretization. Co-authored by Jiatao Gu, Joshua M. Susskind, Shuangfei Zhai, and partners from UC Berkeley and Georgia Tech, this work highlights Apple’s push to regain momentum in generative AI | By Michael Nuñez | | June 9, 2025 |

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| # | Highlights | Summary | Author | Source | Date |
| 1.14 | **Claude Gov models are customized to meet the unique needs of U.S. national security operations.** | Anthropic has launched a specialized suite of AI models named "Claude Gov," tailored for U.S. national security agencies. Developed based on direct feedback from government clients, these models are deployed in classified environments to support operations such as strategic planning, intelligence analysis, and cybersecurity. Claude Gov models are designed to handle classified materials more effectively, exhibit enhanced understanding of defense-related documents, and demonstrate improved proficiency in critical languages and dialects. Access is restricted to authorized personnel within top-tier government agencies. | By Anthropic Newsroom |  | June 6, 2025 |
| 1.15 | **OpenAI rolls out powerful new models with enhanced reasoning, coding, and tool access.** | OpenAI has introduced updated models: o3, o4-mini, and GPT-4.1. The o3 model enhances reasoning and reduces major mistakes by ~20% compared to o1. o4-mini is optimized for high performance in coding and image-related tasks. GPT-4.1, available in several sizes including mini and nano, features a 1 million token context window and better instruction-following. Additionally, ChatGPT's Operator is now powered by an o3-based Computer-Using Agent (CUA), improving its tool and browser use capabilities. | By OpenAI Help Center |  | June 7, 2025 |

| AI Chips | | | | | |
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| # | Highlights | Summary | Author | Source | Date |
| 2.1 | **Musk's Neuralink Raises $650 Million in Latest Funding Round** | Neuralink, Elon Musk's neurotechnology company, has secured $650 million in its latest funding round to accelerate the development of brain-computer interface (BCI) technologies. The capital will support research on implantable neural devices designed to treat neurological disorders and enhance human cognition. Neuralink aims to advance its FDA approval process and scale manufacturing capabilities. This significant investment underscores growing interest in AI-integrated neurotechnology and its potential to revolutionize healthcare and human-machine interaction. | By Reuters | | June 2, 2025 |
| 2.2 | **CoreWeave Signs 15-Year Lease Worth $7 Billion for AI Data Center Expansion** | CoreWeave has inked a 15-year lease valued at $7 billion to expand its AI-focused data center infrastructure. The deal supports the company's rapid growth in providing high-performance computing resources for AI training and inference workloads. The new facilities will house advanced GPUs and AI accelerators, catering to increasing demand from cloud providers, startups, and enterprises. This long-term commitment signals continued investment in scalable AI hardware environments critical for next-generation AI development. | By Reuters | | June 2, 2025 |
| 2.3 | **Microsoft to Invest $400 Million in Switzerland AI Cloud Computing Hub** | Microsoft announced a $400 million investment to establish a new AI cloud computing data center region in Switzerland. The facility will support AI workloads for European customers, enhancing data sovereignty, latency, and compliance with strict regional regulations. This expansion reflects Microsoft's commitment to scaling AI infrastructure globally, enabling faster AI model training and deployment. The Swiss region will integrate with Azure's ecosystem, serving industries from healthcare to finance with advanced cloud and AI capabilities. | By Reuters | | June 2, 2025 |

| AI Chips | | | | | |
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| 2.4 | **Nvidia CEO Praises Processor in Nintendo Switch 2, Promises Enhanced Gaming Performance** | Nvidia CEO Jensen Huang has highlighted the advanced processor powering the upcoming Nintendo Switch 2, emphasizing its potential to revolutionize portable gaming. According to Huang, the new chip is designed to deliver exceptional AI-driven graphics, smoother gameplay, and improved performance, making it a significant leap over the current model. The processor integrates Nvidia's latest GPU architecture, enhancing real-time rendering and AI capabilities. Huang's remarks underscore Nvidia's growing role in next-generation gaming, where AI hardware is becoming crucial for immersive experiences in both consoles and handheld devices. | By Dean Takahashi | | June 3, 2025 |
| 2.5 | **Cornelis Networks Unveils Technology to Speed Up AI Data Center Connections** | Cornelis Networks has launched a new technology aimed at accelerating AI data center connectivity. The innovation improves data transfer rates between AI processors and storage systems, reducing bottlenecks and enhancing overall system performance. By implementing high-speed, low-latency interconnects, Cornelis Networks helps AI models process larger datasets more efficiently, critical for training and inference tasks. This breakthrough is expected to support the growing demands of AI workloads, helping data centers scale effectively in the face of increasing AI adoption across industries. | By Stephen Nellis | | June 3, 2025 |
| 2.6 | **Broadcom Ships Tomahawk 6: World's First 102.4 Tbps Switch** | Broadcom has begun shipping its Tomahawk 6 switch ASIC, a single-chip Ethernet solution delivering an industry-leading 102.4 Tbps of switching capacity—double that of any existing Ethernet switch. Built on TSMC's cutting-edge 3 nm process and leveraging modular chiplet architecture, it supports up to 1,024 × 100 Gbps SerDes or 512 × 200 Gbps, with optional co-packaged optics. The inclusion of Cognitive Routing 2.0 enhances adaptive traffic management and reduces power use. Ideal for hyperscale | By Broadcom Inc. | | June 3, 2025 |

| AI Chips | | | | | |
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| | | AI data centers, Tomahawk 6 enables unified scale-up and scale-out fabrics supporting hundreds of thousands—even over a million XPUs—on an open-Ethernet standard. | | | |
| 2.7 | **U.S. Exaggerating Huawei's AI Chip Achievements, CEO Ren Says** | Huawei CEO Ren Zhengfei publicly acknowledged that his company's Ascend AI chips remain "one generation behind" those from U.S. competitors but emphasized that Huawei compensates using math-driven methods like compound chips and cluster computing Despite U.S. export controls, Ren reassures stakeholders there's "no need to worry about the chip problem" and highlights Huawei's ¥180 billion R&D investment, with roughly one-third dedicated to theoretical research. He further asserted that U.S. reports tending to exaggerate Huawei's AI prowess have fueled misconceptions, stating: "The United States has exaggerated Huawei's achievements." | By Brenda Goh | | June 10, 2025 |
| 2.8 | **China Deploys World's First Non-Binary AI Chip in Aviation and Industrial Systems** | China has launched the first large-scale application of **non-binary AI chips**, integrating **Hybrid Stochastic Number (HSN)** logic into critical sectors like aviation and displays. Developed by Prof. Li Hongge's team at Beihang University, this chip merges binary and probabilistic computing to surpass the **power** and **architecture walls** limiting traditional silicon-based designs. Fabricated using 110nm and 28nm CMOS processes, it enables fault-tolerant, energy-efficient, in-memory computing with system-on-chip design. Applications include touch recognition, instrument displays, and flight control. The team is also developing a dedicated ISA for future AI, image, and speech processing tasks. | By Zhang Tong | | June 9, 2025 |

| LLM Techniques & Metrics | | | | | |
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| # | Highlights | Summary | Author | Source | Date |
| 3.1 | **ARIA - Training Language Agents with Intention-Driven Reward Aggregation** | ARIA (Intention-Driven Reward Aggregation), a method to improve reinforcement learning for language agents operating in open-ended environments like negotiation or question-asking games. These tasks suffer from sparse, high-variance rewards due to the vast action space of language. ARIA tackles this by mapping semantically similar language actions into a low-dimensional intention space, enabling shared reward signals. This reduces variance and improves learning efficiency. Experiments across four tasks show that ARIA consistently outperforms standard baselines, delivering an average 9.95% gain in performance while reducing policy gradient variance significantly. | By Ruihan Yang, et al. | | May 31, 2025 |
| 3.2 | **Beyond the 80/20 Rule: High-Entropy Minority Tokens Drive Effective Reinforcement Learning for LLM Reasoning** | The idea that most learning happens from easy, frequent tokens. Instead, it shows that high-entropy, low-frequency "minority tokens"—the ones that create forks in reasoning paths—are key to improving large language model (LLM) reasoning. Using RLVR (Reinforcement Learning with Verifiable Rewards), the authors selectively update these forking tokens. Experiments with Qwen3 models (8B–32B) on math and code benchmarks (AIME'24, AIME'25) show that this strategy yields stronger performance than uniform or top-entropy token selection. The work highlights the importance of strategic token selection in reinforcement learning for reasoning tasks. | By Qwen Team, Alibaba Inc., LeapLab, Tsinghua University | | June 2, 2025 |
| 3.3 | **Meta Releases Llama Prompt Ops: A Python Package that Automatically Optimizes Prompts for Llama Models** | Meta has introduced Llama Prompt Ops, a Python package that streamlines and automates prompt optimization for Llama models. It helps developers transition prompts from other large language models—such as GPT, Claude, or Gemini—by adapting tone, formatting, and instruction structure to match Llama's expectations. The tool uses template-based transformations and supports evaluation to improve prompt effectiveness without manual tuning. It is especially useful for teams migrating existing | By Asif Razzaq | | June 2, 2025 |

| LLM Techniques & Metrics | | | | | |
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| | | workflows to Llama, ensuring compatibility and performance. With just a few lines of code, developers can optimize prompts and boost Llama's reliability and output quality. The tool is open-source on GitHub. | | | |
| 3.4 | **Transformers as Multi-task Learners: Decoupling Features in Hidden Markov Models** | Transformers as Multi-task Learners: Decoupling Features in Hidden Markov Models explores how transformer models handle multiple tasks simultaneously and how their internal representations can be analyzed using Hidden Markov Models (HMMs). It introduces methods to decouple features learned across tasks, allowing better interpretation of transformer behaviors. By integrating HMMs, the authors study how transformers represent different latent structures depending on the task. Experimental results show that transformers can effectively manage multi-task learning and that feature separation improves performance and interpretability. The study bridges sequence modeling and deep learning for better task-specific representation learning. | By Yifan Hao, et al. |  | June 2, 2025 |
| 3.5 | **REWARDBENCH 2: Advancing Reward Model Evaluation** | RewardBench 2 is an advanced benchmark designed to evaluate reward models used with large language models (LLMs). It covers six challenging domains—Factuality, Instruction Following, Math, Safety, Focus, and Equally Valid Answers—using mostly unseen, human-written prompts. Each prompt includes four completions, testing models' ability to select the best response. Compared to the original version, models score about 20 points lower, revealing the new benchmark's greater difficulty and stronger generalization demands. RewardBench 2 scores also show strong correlation with downstream task performance, making it a valuable tool for training and improving high-quality, alignment-aware reward models for LLMs. | By Allen Institute for Artificial Intelligence, Cohere Team |  | June 2, 2025 |

| LLM Techniques & Metrics | | | | | |
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| 3.6 | **DRAG: Distilling RAG for SLMs from LLMs to Transfer Knowledge and Mitigate Hallucination via Evidence and Graph-based Distillation** | DRAG: Distilling RAG for SLMs from LLMs to Transfer Knowledge and Mitigate Hallucination via Evidence and Graph-based Distillation introduces a framework named DRAG. This framework aims to transfer the capabilities of large language models (LLMs) to smaller language models (SLMs) by distilling knowledge from Retrieval-Augmented Generation (RAG) systems. By leveraging evidence and knowledge graph-based distillation, DRAG enhances the factual accuracy of SLMs while reducing computational costs. Experimental results demonstrate that DRAG outperforms previous methods like MiniRAG by up to 27.7%, offering a practical solution for deploying efficient and reliable small-scale language models. | By Jennifer Chen, et al. |  | June 2, 2025 |
| 3.7 | **SRPO: Enhancing Multimodal LLM Reasoning via Reflection-Aware Reinforcement Learning** | SRPO (Self-Reflection enhanced Reasoning with Group Relative Policy Optimization) is a two-stage reinforcement learning framework designed to improve reasoning in multimodal large language models (MLLMs). In Stage 1, a high-quality dataset is built using models like GPT-4-mini, including tags like <think>, <reflection>, and <answer> to encourage reflective thinking. Stage 2 introduces a reward mechanism within the GRPO (Group Relative Policy Optimization) framework to train models to produce accurate, structured reflections. Tested on benchmarks like MathVista and MMMU-Pro with models such as Qwen-VL, SRPO significantly improves both reasoning accuracy and the quality of self-reflection | By Zhongwei Wan, et al. |  | June 2, 2025 |
| 3.8 | **Teaching AI models what they don’t know** | Themis AI, an MIT spinout, developed Capsa, a tool that helps AI models recognize when their predictions might be wrong. Instead of blindly trusting outputs, Capsa enables models to measure their own uncertainty and flag potentially unreliable results. This is crucial for high-risk applications like drug discovery, autonomous driving, and scientific research. Capsa works across machine learning platforms and industries, improving model | By Zach Winn |  | June 3, 2025 |

| LLM Techniques & Metrics | | | | | |
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| | | reliability without retraining. By identifying ambiguous or biased data processing, Themis AI ensures AI systems become more self-aware, trustworthy, and safer for real-world deployment. It's already in use across several enterprise sectors. | | | |
| 3.9 | **Accelerating Diffusion LLMs via Adaptive Parallel Decoding** | Accelerating Diffusion LLMs via Adaptive Parallel Decoding introduces Adaptive Parallel Decoding (APD), a method to speed up text generation in diffusion-based large language models (dLLMs). APD adaptively determines how many tokens to generate in parallel during decoding, balancing quality and speed. It integrates marginal probabilities from diffusion models with joint probabilities from a small autoregressive model to guide high-quality parallel token selection. This significantly reduces generation latency without compromising output accuracy. APD offers a practical solution for real-time applications requiring fast and reliable LLM responses, marking progress in efficient large-scale language generation. | By Daniel Israel, et al. |  | May 31, 2025 |
| 3.10 | **One Missing Piece for Open-Source Reasoning Models: A Dataset to Mitigate Cold-Starting Short CoT LLMs in RL** | One Missing Piece for Open-Source Reasoning Models addresses the challenge of cold-starting short chain-of-thought (CoT) LLMs in reinforcement learning settings. The authors introduce Long CoT Collection, a dataset of 100,000 diverse long reasoning samples designed to help short CoT models learn to generate longer, more detailed reasoning steps. This dataset significantly improves open-source LLMs' reasoning abilities, enabling more effective bootstrapping for training without requiring large proprietary models. The approach enhances the scalability and accessibility of reasoning-focused LLMs, offering a critical resource for advancing open-source AI in complex, multi-step reasoning tasks. | By Hyungjoo Chae, et al. |  | June 3, 2025 |

| LLM Techniques & Metrics | | | | | |
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| 3.11 | **OpenAI Introduces Four Key Enhancements to Its AI Agent Framework** | OpenAI has introduced four major updates to its AI agent framework, aimed at improving developer flexibility and enhancing agent capabilities. First, developers can now use TypeScript to build agents, broadening language support. Second, a new real-time agent feature with human-in-the-loop interaction enables agents to consult with humans during tasks, leading to better decision-making. Third, enhanced memory management allows agents to retain context more effectively over the long term. Lastly, advanced error handling has been added to help agents detect and recover from issues more reliably. These improvements are designed to make agent development and deployment more streamlined, adaptable, and efficient. | By Asif Razzaq |  | June 3, 2025 |
| 3.12 | **MMR-V: What's Left Unsaid? A Benchmark for Multimodal Deep Reasoning in Videos** | The sequential nature of videos makes it difficult for multimodal large language models (MLLMs) to locate relevant evidence across multiple frames and perform deep reasoning. Existing benchmarks focus mostly on perception-based tasks requiring only brief frame matching. To fill this gap, we introduce MMR-V, a benchmark for complex multimodal reasoning in videos. MMR-V emphasizes long-range inference, hidden information reasoning, and includes human-validated tasks with built-in distractors to prevent shortcut learning. It features 317 videos and 1,257 tasks. Current models, including o4-mini, perform poorly (52.5% accuracy), revealing major limitations in reasoning methods like Chain-of-Thought in multimodal contexts. | By Kejian Zhu, et al. |  | June 4, 2025 |
| 3.13 | **Establishing Trustworthy LLM** | Reliable evaluation is essential for LLM development, yet public benchmarks often suffer from data contamination, skewing fairness. | By Kejian Zhu, et al. |  | June 4, 2025 |

| LLM Techniques & Metrics | | | | | |
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| | **Evaluation via Shortcut Neuron Analysis** | Instead of building new benchmarks, this paper analyzes contaminated models directly. The authors find that contamination leads to overestimated performance due to models learning shortcut solutions. To address this, they propose a method to identify "shortcut neurons" using comparative and causal analysis, introducing shortcut neuron patching to suppress them. Experiments show this effectively mitigates contamination, with results strongly correlating ($\rho > 0.95$) with the trusted MixEval benchmark. The method generalizes well across different benchmarks and hyperparameter settings, enhancing evaluation reliability. | | | |
| 3.14 | **Quantitative LLM Judges** | LLM-as-a-judge is a framework where one large language model (LLM) evaluates another LLM's output automatically. This paper introduces quantitative LLM judges, which improve evaluation accuracy by aligning existing LLM judges' scores with human judgments via regression models. These models leverage the original judge's textual feedback and scores to enhance evaluation quality. The framework offers four types of quantitative judges, demonstrating versatility across different feedback forms. It is more computationally efficient than supervised fine-tuning and works well even with limited human feedback. Experiments on four datasets confirm that quantitative judges effectively boost evaluation reliability post-hoc. | By Aishwarya Sahoo,et al. |  | June 3, 2025 |
| 3.15 | **Critique-GRPO: Advancing LLM Reasoning with Natural Language and Numerical Feedback** | Recent advances in reinforcement learning (RL) with numerical feedback have improved large language models' (LLMs) reasoning abilities, but challenges remain, including performance plateaus and limited self-reflection. This paper introduces Critique-GRPO, an online RL framework combining natural language critiques with numerical rewards for better policy optimization. Critique-GRPO enables models to learn from both initial answers and critique-guided refinements simultaneously. Experiments with | By Xiaoying Zhang, et al. |  | June 4, 2025 |

| LLM Techniques & Metrics | | | | | |
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| | | Qwen models show consistent performance gains—about 4.5–5% improvements—across eight challenging reasoning tasks, outperforming supervised and RL fine-tuning baselines. Analysis highlights that higher entropy and longer responses don't always improve learning or exploration efficiency. | | | |
| 3.16 | **Beyond the Surface: Measuring Self-Preference in LLM Judgments** | This paper examines self-preference bias in large language models' (LLMs) judgments, where models tend to favor their own answers over others. Previous methods measuring this bias often confuse answer quality with bias, leading to misleading results. To address this, the authors propose the DBG score, a new metric that compares a model's self-ratings to human gold-standard scores for more accurate bias measurement. Experiments show DBG effectively evaluates bias across different model sizes, versions, and reasoning abilities. The study also explores how response style and training data influence bias and investigates potential mechanisms from an attention-based perspective. | By Zhi-Yuan Chen, et al. |  | June 3, 2025 |
| 3.17 | **A Controllable Examination for Long-Context Language Models** | This paper introduces LongBioBench, a controllable benchmark for evaluating long-context language models (LCLMs). Existing evaluations either use complex real-world tasks, which are hard to interpret and prone to data contamination, or synthetic tasks with "needle-in-the-haystack" designs that poorly represent real applications. LongBioBench addresses these issues by providing a controlled environment using artificially generated biographies to test LCLMs on understanding, reasoning, and reliability. Evaluations of 18 models reveal struggles with semantic understanding and reasoning as context length increases. The study highlights shortcomings in prior benchmarks and shows that extended pretraining offers only marginal improvements in true long-context abilities. | By Yijun Yang, et al. |  | June 3, 2025 |

| LLM Techniques & Metrics | | | | | |
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| # | Highlights | Summary | Author | Source | Date |
| 3.18 | **Google Introduces ACT to Enhance Multi-Turn Dialogue in LLMs** | Google Research has unveiled Action-Based Contrastive Self-Training (ACT), a novel algorithm designed to improve large language models' (LLMs) ability to handle multi-turn conversations. Building upon Direct Preference Optimization (DPO), ACT enables LLMs to learn more effective dialogue strategies by simulating clarifying questions in ambiguous contexts. Tested across tasks like tabular-grounded QA, machine reading comprehension, and the new AmbigSQL benchmark, ACT demonstrates enhanced sample efficiency and performance. This advancement aims to make AI assistants more adept at managing complex, real-world interactions. | By Maximillian Chen, et ai. |  | June 3, 2025 |
| 3.19 | **Advancing Multimodal Reasoning: From Optimized Cold Start to Staged Reinforcement Learning** | ReVisual-R1 is a 7B-parameter open-source multimodal language model designed for complex visual reasoning tasks, including math-based visual QA and competitive exam challenges like AIME. It introduces a three-stage training strategy: (1) cold-start text pretraining to build core reasoning skills, (2) multimodal reinforcement learning (RL) to align visual understanding, and (3) text-only RL refinement to enhance fluency and reasoning. To address gradient stagnation during visual RL, it proposes Prioritized Advantage Distillation. ReVisual-R1 achieves state-of-the-art performance on benchmarks such as MathVista and DynaMath, showing strong synergy between vision and language in problem-solving. | By Shuang Chen, et al. |  | June 4, 2025 |
| 3.20 | **OpenThoughts: Data Recipes for Reasoning Models** | Reasoning models excel at tasks in math, code, and science, but training methods often rely on private datasets. The OpenThoughts project tackles this by developing open-source datasets for training such models. OpenThoughts2-1M enabled OpenThinker2-32B to match proprietary models like DeepSeek-R1-Distill-32B. Through over 1,000 controlled | By Etash Guha, et al. |  | June 5, 2025 |

| LLM Techniques & Metrics | | | | | |
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| | | experiments, the team refined their data pipeline to create OpenThoughts3. Using 1.2M examples and QwQ-32B as a teacher, they trained OpenThoughts3-7B. This model achieves state-of-the-art results: 53% on AIME 2025, 51% on LiveCodeBench, and 54% on GPQA Diamond—surpassing previous models by up to 20.5 percentage points. | | | |
| 3.21 | **Google Open-Sources Deep Research Agents with Gemini 2.5 & LangGraph** | Google has open-sourced a full-stack “DeepResearch” agent built using Gemini 2.5 combined with the LangGraph framework. The system features: a React/Tailwind frontend, a LangGraph-powered backend agent, dynamic query generation, iterative web search, reflective reasoning to identify knowledge gaps, and citation-backed answers. Developers can deploy end-to-end research agents capable of autonomously generating search queries, assessing gaps, refining searches, and synthesizing comprehensive, sourced responses. The project offers a hands-on quickstart on GitHub—ideal for researchers and engineers looking to build transparent, citation-aware LLM agents. | By Lynn Mikami |  | June 3, 2025 |
| 3.22 | **Hirundo Raises $8M to Develop “Machine Unlearning” for AI Hallucinations** | Hirundo AI Ltd. has secured $8 million in seed funding from Maverick Ventures Israel and others to pioneer “machine unlearning”—a method enabling trained AI models to retroactively **unlearn** problematic behaviors such as hallucinations, biases, confidential data leakage, and prompt-injection vulnerabilities. This neurosurgery-like approach locates and erases harmful patterns from model parameters without retraining, achieving up to **55% reduction in hallucinations**, **70% drop in bias**, and an **85% decrease in prompt injection attacks**. Already piloted in finance, healthcare, defense, and computer vision applications, this toolkit promises scalable remediation and enhanced trustworthiness in enterprise AI deployment. | By Mike Wheatley |  | June 9, 2025 |

| LLM Techniques & Metrics | | | | | |
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| # | Highlights | Summary | Author | Source | Date |
| 3.23 | **The Illusion of Thinking: Understanding the Strengths and Limitations of Reasoning Models via the Lens of Problem Complexity** | Apple ML researchers (Parshin Shojaee, Iman Mirzadeh, Keivan Alizadeh, Maxwell Horton, Samy Bengio, Mehrdad Farajtabar) introduce a structured evaluation of “Large Reasoning Models” (LRMs) using controllable puzzle environments like Tower of Hanoi, checker puzzles, river-crossing, and block rearrangement. They identify three reasoning regimes: standard models outperform LRMs on simple tasks; LRMs shine on medium complexity; but both collapse catastrophically beyond a complexity threshold, even reducing “thinking” effort despite available token budget. Additionally, LRMs struggle with exact algorithmic execution—even when given the correct solution steps—revealing an “illusion” of true reasoning | By Apple Research Team |  | June 6, 2025 |
| 3.24 | **Aligning Latent Spaces with Flow Priors** | This paper introduces a method to align learnable latent spaces with target distributions using flow-based generative models as priors. The approach refines latent representations in models like autoencoders to better match desired data distributions, improving generative quality and model generalization. It employs a two-step process: first training a flow-based model on target features, then using it to guide latent space alignment through a specialized loss function. Theoretical analysis proves the approach maximizes a variational lower bound on the target distribution’s log-likelihood. Experiments on large-scale datasets like ImageNet demonstrate improved performance without relying on specialized hardware. | By Yizhuo Li, et al. |  | June 5, 2025 |
| 3.25 | **Inference-Time Hyper-Scaling with KV Cache Compression** | Large language models are limited at inference time by compute and memory constraints. This paper introduces a technique called KV cache compression, allowing models to store compressed intermediate representations during generation. This enables models to generate longer outputs or parallel responses without exceeding latency or memory | By Adrian Łańcucki, et al. |  | June 5, 2025 |

| LLM Techniques & Metrics | | | | | |
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| | | budgets. The method improves reasoning accuracy and throughput, particularly under fixed resource conditions. Empirical results show benefits across various benchmarks. Overall, KV cache compression offers a practical approach to scaling LLM inference capabilities efficiently, without altering model architecture or retraining requirements. | | | |
| 3.26 | **AssetOpsBench: Benchmarking AI Agents for Task Automation in Industrial Asset Operations and Maintenance** | AssetOpsBench, a benchmark designed to evaluate AI agents in automating operations and maintenance tasks for industrial assets. It simulates realistic workflows—such as fault diagnosis, maintenance scheduling, and work order execution—within complex industrial settings. The benchmark features diverse environments and structured tasks that test multi-step reasoning, real-time decision-making, and operational efficiency. AssetOpsBench provides a controlled evaluation framework to assess how well AI agents manage dynamic, high-stakes scenarios without human intervention. This work aims to accelerate the development of robust, intelligent systems for real-world industrial automation and asset management. | By Dhaval Patel, et al. |  | June 4, 2025 |
| 3.27 | **Truth in the Few: High-Value Data Selection for Efficient Multi-Modal Reasoning** | This paper introduces Reasoning Activation Potential (RAP), a novel method to efficiently train multi-modal large language models (MLLMs) using only the most informative data samples. RAP evaluates data based on causal and attention-based reasoning potential, identifying examples that best challenge and refine a model's capabilities. It reduces training cost by over 43% while maintaining or improving accuracy—achieving comparable results using just 9.3% of the original data. The approach includes estimators for causal discrepancy, attention confidence, and difficulty-aware replacement, all designed to optimize multi-modal | By Shenshen Li, et al. |  | June 5, 2025 |

| LLM Techniques & Metrics | | | | | |
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| | | reasoning without sacrificing performance or requiring architectural changes. | | | |
| 3.28 | **When Models Know More Than They Can Explain: Quantifying Knowledge Transfer in Human-AI Collaboration** | This paper explores how large language models (LLMs) transfer knowledge during human-AI collaboration, focusing on tasks like coding and math problem-solving. It introduces KITE (Knowledge Integration and Transfer Evaluation), a novel framework to measure how effectively models communicate their knowledge to humans. Through experiments involving 118 participants, the study assesses the impact of model explanations on human understanding and collaboration outcomes. Results reveal a correlation between model performance and collaborative success, highlighting the need to optimize LLMs for clearer knowledge transfer in interactive settings. | By Quan Shi, et al. |  | June 9, 2025 |
| 3.29 | **Prefix Grouper: Efficient GRPO Training through Shared-Prefix Forward** | This paper introduces Prefix Grouper, a method designed to enhance training efficiency in long-context language models using Group Relative Policy Optimization (GRPO). By recognizing and leveraging shared prefixes in input sequences, the method eliminates redundant computations, encoding shared prefixes just once. It divides self-attention into prefix and suffix parts to optimize interactions between tokens. The approach significantly reduces computational costs without sacrificing model performance and maintains equivalence with standard GRPO training. This innovation is crucial for scalable reinforcement learning in large language models handling extended contexts. | By Zikang Liu, et al. |  | June 5, 2025 |

| AI Use Cases | | | | | |
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| 4.1 | **Micro Center Returns to Silicon Valley, Filling Fry's Electronics Void** | Micro Center has reopened in Santa Clara, California, marking its return to Silicon Valley after a 12-year hiatus. The 40,000-square-foot store offers over 20,000 products, including AI-ready PCs, GPUs, and DIY electronics. It features interactive spaces like the Knowledge Bar for tech support and live repair stations. The store aims to serve the local tech community by providing hardware capable of supporting local AI applications, offering an alternative to cloud-based systems. This move reestablishes a physical hub for tech enthusiasts in the region. | By Dean Takahashi | | May 30, 2025 |
| 4.2 | **Snowflake & Databricks Cross the Rubicon into Systems of Intelligence** | Enterprise data platforms are evolving from passive BI tools into real-time Systems of Intelligence (SoI), bridging analytics, business logic, and autonomous AI agents. SiliconANGLE's Breaking Analysis spotlights how Snowflake and Databricks, alongside AWS/Azure/GCP, are moving "up the stack" from static dashboards to dynamic metric-tree control planes that sense, predict, and optimize. These platforms now enable causal root-cause tracing, prescriptive decision-making, and embedded operational semantics—key for scalable AI agents. As they integrate analytics, real-time insight, and agency, vendor lock-in intensifies and competition extends into application execution. | By Dave Vellante and George Gilbert | | May 31, 2025 |
| 4.3 | **WHEN TO ACT, WHEN TO WAIT: Modeling Structural Trajectories for Intent Triggerability in Task-Oriented Dialogu** | STORM, a novel framework to model how intent emerges in task-oriented dialogue systems, particularly when user utterances lack structural clarity. STORM simulates two agents: UserLLM (with full access to internal thoughts) and AgentLLM (with limited, observable input), capturing the asymmetry in real-world communication. The study finds that moderate uncertainty (40–60%) can outperform full transparency in some tasks. It also proposes new metrics for reasoning and intent prediction. STORM offers insights into how AI systems can better anticipate user intent, leading to more robust and adaptive dialogue agents. | By Yaoyao Qian, et al. | | June 2, 2025 |

| AI Use Cases | | | | | |
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| 4.4 | **SP Leverages Deep Web Scraping and Ensemble Learning to Boost SME Data Collection** | SP has developed an advanced data collection system combining deep web scraping, ensemble learning models, and Snowflake's cloud data architecture to gather five times more data on small and medium-sized enterprises (SMEs). This approach enables richer, more accurate datasets for business insights and risk assessment. By integrating multiple scraping techniques and AI models, SP efficiently extracts structured and unstructured data, fueling enhanced analytics and decision-making for clients. The system exemplifies AI-driven innovation in big data infrastructure for enterprise use. | By Taryn Plumb | | June 2, 2025 |
| 4.5 | **Google Launches AI Edge Gallery to Enable Cloud-Free AI on Android Phones** | Google has quietly introduced the *AI Edge Gallery*, a platform allowing Android devices to run AI models locally without relying on cloud connectivity. This advancement enhances privacy, reduces latency, and improves offline capabilities for AI-powered apps like image recognition, speech processing, and predictive text. The Edge Gallery provides a curated collection of optimized AI models developers can integrate easily, pushing the frontier of on-device intelligence and empowering users with faster, more secure AI experiences. | By Michael Nuñez | | June 2, 2025 |
| 4.6 | **Aethir Boosts User Acquisition with Instant Play Streaming for Doctor Who: Worlds Apart** | Aethir has partnered with game developer Reality Gaming Group to launch instant play streaming for *Doctor Who: Worlds Apart*, enhancing user acquisition by letting players try the game without downloads or installs. Leveraging cloud streaming technology combined with AI-driven personalization, Aethir delivers seamless, low-latency access tailored to user preferences. This approach reduces friction in onboarding, increases | By Dean Takahashi | | June 2, 2025 |

| AI Use Cases | | | | | |
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| | | engagement, and provides analytics for optimizing player experiences in blockchain-based gaming ecosystems. | | | |
| 4.7 | **PostgreSQL Emerges as Essential Database for AI Applications** | PostgreSQL is gaining traction as the go-to database for AI-driven enterprise applications, thanks to its robust support for vector data, extensibility, and open-source ecosystem. The database now integrates native vector search capabilities, enabling efficient handling of embeddings critical for AI tasks like recommendation, search, and anomaly detection. With its flexibility and scalability, PostgreSQL bridges traditional relational data management and modern AI needs, making it a cornerstone in building AI-powered products across industries. | By Sean Michael Kerner |  | June 2, 2025 |
| 4.8 | **OpenAI's Sora AI Now Free for All via Microsoft Bing Video Creator on Mobile** | OpenAI has made *Sora*, its generative video AI, freely available to all users through Microsoft Bing's Video Creator mobile app. Sora enables creation of short, AI-generated videos from text prompts, supporting creative storytelling and social media content production. The integration into Bing extends Sora's accessibility, democratizing video generation without specialized skills or equipment. This move highlights growing collaboration between OpenAI and Microsoft to embed advanced generative AI across consumer products. | By Carl Franzen |  | June 2, 2025 |
| 4.9 | **Console Raises $6.2M to Automate IT Tasks Using AI** | Console has secured $6.2 million in funding led by Thrive Capital to develop AI-powered automation tools that free IT teams from repetitive and mundane tasks. The platform uses natural language processing and machine learning to automate workflows such as troubleshooting, ticket resolution, and system monitoring. Console aims to improve IT efficiency, reduce downtime, and allow teams to focus on higher-value projects. The | By Marina Temkin |  | June 2, 2025 |

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| | | funding will accelerate product development and expand customer acquisition efforts. | | | |
| 4.10 | **Character AI Introduces Video Generation and Social Feeds on Chatbot Platform** | Character AI has expanded its chatbot platform by integrating AI-powered video generation and social feed features. Users can now create personalized videos within conversations, enhancing interactivity and engagement. The new social feeds enable sharing, discovery, and community building around AI-generated content. This update aims to deepen user experience by combining conversational AI with rich multimedia and social networking, positioning Character AI as a more immersive platform for storytelling and digital interaction. | By Amanda Silberling |  | June 2, 2025 |
| 4.11 | **IBM Acquires Seek.AI and Launches AI Accelerator in NYC** | IBM has acquired Seek.AI, a startup specializing in AI-powered data analysis, to enhance its AI and hybrid cloud offerings. Seek.AI's technology focuses on automating complex data workflows and delivering actionable insights. Concurrently, IBM opened a new AI accelerator in New York City aimed at fostering AI innovation, supporting startups, and collaborating with enterprise clients. The move strengthens IBM's position in enterprise AI by combining advanced analytics capabilities with community-driven innovation hubs. | By Kyle Wiggers |  | June 2, 2025 |
| 4.12 | **LuminX Raises $5.5M to Develop AI Vision Models for Warehouse Operations** | LuminX has secured $5.5 million in funding to advance its AI vision models designed specifically for warehouse environments. These models use computer vision and machine learning to monitor inventory, optimize logistics, and enhance safety protocols. By providing real-time insights and automation, LuminX aims to improve operational efficiency and reduce human error in warehouses. The investment will support product | By Kyt Dotson |  | June 2, 2025 |

| AI Use Cases | | | | | |
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| | | development, scale deployment, and expand market reach in the growing AI-driven supply chain sector. | | | |
| 4.13 | **Pegasystems Expands Features to Build and Manage AI Agents** | Pegasystems has enhanced its AI platform with new features that simplify the building and management of AI agents across enterprise workflows. The updates include improved natural language processing, enhanced integration capabilities, and tools for monitoring agent performance. These advancements enable businesses to deploy AI-driven automation for customer service, sales, and operations more effectively. Pegasystems aims to help organizations accelerate digital transformation by making AI agents more accessible, customizable, and manageable at scale. | By Paul Gillin | | June 2, 2025 |
| 4.14 | **Meta Aims to Fully Automate Advertising with AI by 2026** | Meta plans to fully automate its advertising platform using AI by 2026, according to a Wall Street Journal report. The company aims to leverage AI to optimize ad targeting, creation, and bidding processes without human intervention, improving efficiency and campaign performance. This shift could significantly reduce manual workload for advertisers and boost Meta's ad revenue. However, concerns remain about transparency, bias, and advertiser control in an AI-driven ecosystem. Meta is investing heavily in generative AI and machine learning to transform digital marketing. | By Reuters | | June 2, 2025 |
| 4.15 | **Phonely's AI Agents Achieve 99% Accuracy, Blurring Human-Computer Distinction** | Phonely has introduced AI-powered agents that achieve 99% accuracy in customer interactions, with many users unable to distinguish them from human agents. The company's technology utilizes advanced natural language processing and machine learning to handle complex inquiries, process orders, and offer personalized support. Phonely's AI agents can seamlessly adapt to different communication styles, providing efficient and consistent customer service. The breakthrough highlights the growing potential of AI in customer support, reducing the need for human intervention and enhancing operational efficiency. | By Michael Nuñez | | June 3, 2025 |

| AI Use Cases | | | | | |
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| 4.16 | **OpenAI Enhances Agentic AI with Codex Agents SDK** | OpenAI has unveiled improvements to its *Codex Agents SDK*, advancing the development of agentic AI systems. The updated SDK enables developers to create more autonomous AI agents capable of performing complex tasks such as coding, data analysis, and decision-making. These agents are designed to interact with real-world environments, improving productivity across sectors like software development, finance, and healthcare. The new features enhance task planning, resource management, and real-time decision-making, marking a significant step toward AI systems that can work independently with minimal human intervention. | By Mike Wheatley | | June 3, 2025 |
| 4.17 | **Zscaler Expands Zero Trust AI Capabilities Across Cloud and Branch Environments** | Zscaler has enhanced its Zero Trust security platform with advanced AI capabilities, extending its protection across both cloud and branch environments. The new AI-driven features enable real-time threat detection, adaptive access control, and automated response to anomalies, ensuring a higher level of security for distributed networks. By integrating AI into its Zero Trust architecture, Zscaler aims to improve visibility, reduce risk, and streamline operations, helping businesses safeguard sensitive data and applications from evolving cyber threats in hybrid environments. | By Duncan Riley | | June 3, 2025 |
| 4.18 | **Ciroos AI Raises $21M for Multi-Agent Site Reliability Engineering Platform** | Ciroos AI has raised $21 million to further develop its multi-agent site reliability engineering (SRE) platform. The platform uses AI agents to monitor, predict, and resolve issues in large-scale web infrastructure, enhancing system uptime and performance. By leveraging AI, Ciroos aims to automate routine maintenance tasks, optimize resource allocation, and improve response times to incidents. This funding will help expand the platform's capabilities and scalability, making it a key tool for businesses looking to streamline operations and reduce reliance on manual intervention in site reliability management. | By Paul Gillin | | June 3, 2025 |

| AI Use Cases | | | | | |
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| 4.19 | **Workday Launches AI Agent Developer Toolset with Third-Party Connectors** | Workday has introduced an AI agent developer toolset designed to help businesses build custom AI-driven workflows, including third-party connectors and custom widgets. The new tools enable companies to integrate AI agents seamlessly into their existing Workday environments, automating tasks like HR processes, payroll, and financial management. By offering increased flexibility, the toolset allows developers to create tailored solutions that meet specific organizational needs, enhancing productivity and improving operational efficiency across various industries. | By Kyt Dotson |  | June 3, 2025 |
| 4.20 | **Vertesia Launches Document Preparation Service to Boost AI Reliability and Speed App Development** | Vertesia has launched a new document preparation service aimed at enhancing AI model reliability and accelerating application development. The service focuses on automating document generation, processing, and formatting, which is essential for improving the training data quality for AI models. By streamlining these tasks, Vertesia helps developers reduce bottlenecks, speed up project timelines, and ensure more accurate outputs from AI-driven applications. This move aims to support businesses in integrating AI solutions more efficiently while maintaining high standards of reliability and performance. | By Kyt Dotson |  | June 3, 2025 |
| 4.21 | **Building an Advanced Web Intelligence Agent with Tavily and Gemini AI** | A recent tutorial demonstrates how to develop an advanced web intelligence agent by integrating Tavily's real-time web search capabilities with Google's Gemini AI. This combination enables the creation of an interactive assistant capable of retrieving up-to-date information from the web and processing it using Gemini's advanced language understanding. The guide provides step-by-step instructions, including setting up API keys, configuring the agent's logic, and deploying it for real-world applications. This approach showcases the potential of combining web search with powerful language models to enhance AI-driven decision-making and user interaction. | By Asif Razzaq |  | June 3, 2025 |

| AI Use Cases | | | | | |
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| # | Highlights | Summary | Author | Source | Date |
| 4.22 | **Follow the Flow: Fine-grained Flowchart Attribution with Neurosymbolic Agents** | Follow the Flow: Fine-grained Flowchart Attribution with Neurosymbolic Agents introduces FlowPathAgent, a neurosymbolic system that improves the explainability and trustworthiness of large language model (LLM) outputs. It focuses on fine-grained flowchart attribution, determining which flowchart components support each part of an LLM's answer. FlowPathAgent integrates visual parsing, symbolic reasoning, and LLM querying to trace LLM outputs back to relevant visual elements. This enables transparent, interpretable responses and supports applications in education, medicine, and automation. The work emphasizes aligning LLMs with structured visual knowledge to ensure accurate, reliable AI-assisted decision-making. | By Manan Suri, et al. |  | June 2, 2025 |
| 4.23 | **SuperWriter: Reflection-Driven Long-Form Generation with Large Language Models** | Long-form text generation is challenging for large language models (LLMs) due to difficulties in maintaining coherence, logic, and quality over long sequences. To tackle this, we propose SuperWriter-Agent, an agent-based framework that integrates structured planning and refinement stages, mimicking a professional writer's process. Using this framework, we create a supervised dataset to train a 7B SuperWriter-LM and develop a hierarchical Direct Preference Optimization (DPO) method with Monte Carlo Tree Search (MCTS) to optimize each generation step. Experiments show SuperWriter-LM outperforms larger baselines, with ablations highlighting the benefits of structured thinking and hierarchical DPO. | By Yuhao Wu, et al. |  | June 4, 2025 |
| 4.24 | **Mistral AI Launches 'Mistral Code' for Enterprise-Grade AI Coding Assistance** | Mistral Code integrates advanced AI models, an in-IDE assistant, and local deployment options into a comprehensive package, enabling developers to significantly boost productivity with full IT and security support. Built on the open-source project Continue, it offers enhanced controls and observability tailored for large enterprises. Currently in private beta for JetBrains IDEs and VSCode, Mistral Code follows previous releases like Devstral and Codestral Embed, aiming to streamline coding workflows securely and efficiently within enterprise environments. | By Mistral AI |  | June 4, 2025 |

| AI Use Cases | | | | | |
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| 4.25 | **IBM and Inclusive Brains unite AI, quantum computing, and neurotechnology to revolutionize brain-machine interfaces.** | IBM and Inclusive Brains have partnered to integrate AI, quantum computing, and neurotechnologies, aiming to enhance the understanding of brain-machine interfaces (BMIs). This collaboration seeks to develop adaptive AI systems capable of interpreting neural signals, facilitating more intuitive interactions between humans and machines. By leveraging IBM's expertise in quantum computing and AI, combined with Inclusive Brains' neurotechnology innovations, the initiative aspires to create more responsive and personalized BMI solutions. This interdisciplinary approach holds promise for applications in healthcare, accessibility, and human augmentation. | By IBM News | | June 3, 2025 |
| 4.26 | **NVIDIA's AI Blueprint combines graph neural networks and accelerated computing to significantly enhance credit card fraud detection accuracy.** | NVIDIA has launched a new AI Blueprint aimed at bolstering credit card fraud detection for financial institutions. Unveiled at the Money20/20 conference, this workflow leverages NVIDIA's AI Enterprise platform and GPU-accelerated computing to improve detection accuracy and reduce false positives. By integrating graph neural networks with traditional models like XGBoost, the system can identify complex fraud patterns across transactions and user behaviors. The blueprint is designed for deployment on platforms such as AWS and HPE, with plans for expansion to Dell Technologies. Early adopters have reported up to a 40% improvement in detection accuracy. | By Pahal Patangia | | June 2, 2025 |
| 4.27 | **Gemini 2.5's native audio output facilitates more natural and expressive AI interactions, with built-in watermarking for transparency.** | Google DeepMind has enhanced its Gemini 2.5 models with native audio output capabilities, allowing developers to create more interactive applications via the Gemini API in Google AI Studio or Vertex AI. This feature enables controllable speech generation, where users can adjust tone, accent, and speaking style, enhancing the naturalness of AI interactions. All AI-generated audio outputs are embedded with SynthID, Google's watermarking technology, ensuring transparency by making them identifiable. Developers can explore these capabilities through the Gemini 2.5 Flash preview in Google AI Studio's stream tab.ß | By Ankur Bapna and Tara Sainath | | Jun 03, 2025 |

| AI Use Cases | | | | | |
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| # | Highlights | Summary | Author | Source | Date |
| 4.28 | **OpenAI Hits 3 Million Enterprise Users, Rolls Out Workplace AI Tools** | OpenAI has reached 3 million paying business users—a 50% increase since February—with a suite of AI-powered workplace tools designed to rival Microsoft's enterprise offerings. New **connectors** allow teams to access data across Google Drive, Dropbox, Box, SharePoint, OneDrive, HubSpot, and Linear directly within ChatGPT. **Record Mode** transcribes meetings in real time and extracts action items, while the updated **Deep Research** and **Codex** coding agents (powered by codex-1/o3 reasoning) support multi-step analysis and autonomous code generation. These enhancements position OpenAI as a go-to enterprise tool offering productivity, security, and cutting-edge AI capabilities. | By Michael Nuñez |  | June 4, 2025 |
| 4.29 | **ComfyUI-Copilot: An Intelligent Assistant for Automated Workflow Development** | ComfyUI-Copilot is a multi-agent LLM-based assistant designed to help users—especially beginners—navigate ComfyUI's complex visual programming interface for generative art. Built atop a hierarchical agent architecture, it uses semantic retrieval and reranking to provide intelligent node, model, and workflow suggestions. Leveraging a structured knowledge base of 7,000 nodes, 62,000 models, and 9,000 workflows, it enables one-click art generation, error fixing, and dynamic customization. The system demonstrates strong performance in offline evaluations and user studies, significantly enhancing usability and creativity in AI art workflows without requiring specialized hardware or proprietary data. It is fully open-source and customizable. | By Zhenran Xu, et al. |  | June 5, 2025 |
| 4.30 | **Apple Launches On-Device & Server Foundation Models Framework** | Apple introduced its Foundation Models framework at WWDC 2025, providing Swift APIs for developers to access both on-device and server-based large language models. A lightweight ~3B-parameter model runs efficiently on Apple silicon, while a larger PT-MoE model operates via Private Cloud Compute. The framework supports guided generation, streaming, tool-calling (e.g., calendars, contacts), structured outputs via @Generable, and multi-turn memory. These features power Apple Intelligence in apps like Notes, Mail, and Calendar—delivering privacy- | By Apple Research Team |  | June 9, 2025 |

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| | | preserving AI experiences. Developers can now create intelligent, context-aware features while keeping user data secure. | | | |
| 4.31 | **Search Arena: Analyzing Search-Augmented LLMs** | Search-augmented language models blend web search with LLMs to enhance grounding and access to fresh information. Yet, evaluating them is hard—existing benchmarks are often small-scale, single-turn, and static, mainly centered on fact-checking. We propose Search Arena, a comprehensive, crowd-sourced dataset featuring over 24,000 multi-turn human–AI interactions. Each scenario involves paired responses from two search-enhanced LLMs, alongside human preferences. Our analysis leverages this dataset to examine user behavior, query evolution, and the strengths and weaknesses of retrieval-augmented systems in realistic conversational settings. We make the dataset and code publicly available to accelerate research in search-aware conversational AI. | By Mihran Miroyan, et al. |  | June 5, 2025 |
| 4.32 | **When Semantics Mislead Vision: Mitigating Large Multimodal Models Hallucinations in Scene Text Spotting and Understanding** | This paper addresses hallucination issues in large multimodal vision-language models used for scene text spotting and understanding. The authors propose an attention-driven coarse-to-fine strategy within transformer layers to reduce semantic hallucinations, focusing the model's attention progressively from coarse global structures to finer details. This approach improves accuracy and reliability when reading text in complex real-world images. While no specific hardware is discussed, such models typically require powerful GPUs or TPUs for training and inference. The method enhances the interpretability and performance of multimodal text recognition systems. | By Yan Shu, et al. |  | June 5, 2025 |
| 4.33 | **Intel-powered edge AI dramatically cuts farm processing time and boosts sustainability.** | Intel is revolutionizing sustainable farming through AI-powered precision agriculture. At Ohio State University's 2,000-acre research farm, students employ Intel technology to implement ultra-precise farming techniques. Instead of blanket spraying, AI targets individual crops with the exact amount of herbicide, pesticide, fertilizer, and water needed. Data from sensors and drones is swiftly transferred via a private 5G network to an | By Intel Newsroom |  | June 9, 2025 |

| AI Use Cases | | | | | |
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| # | Highlights | Summary | Author | Source | Date |
| | | Intel® Xeon®-powered server. The heavy-lifting happens on an Intel-powered supercomputer, which analyzes the data and sends immediate, targeted instructions to AI PCs with Intel® Core™ Ultra processors. This innovation aims to make farming more sustainable and efficient, with the potential for autonomous operation in the future. | | | |

| AI Policies Regulations & Strategies | | | | | |
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| # | Highlights | Summary | Author | Source | Date |
| 5.1 | **Elad Gil Bets on AI-Powered Rollups to Transform Traditional Industries** | Renowned AI investor Elad Gil is focusing on AI-powered rollups, acquiring mature, labor-intensive businesses like law firms and enhancing them with AI to boost efficiency and margins. This approach allows for rapid scaling and reinvestment into further acquisitions. Gil has invested in two companies pursuing this strategy, including Enam Co., valued at over $300 million with backing from Andreessen Horowitz and OpenAI's Startup Fund. | By Connie Loizos | | June 1, 2025 |

| AI Policies Regulations & Strategies | | | | | |
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| | | He believes that AI can fundamentally change cost structures, offering a significant advantage over traditional tech-enabled rollups. | | | |
| 5.2 | **French Government Offers €410M for Atos's Advanced Computing Arm** | The French state has submitted a confirmed offer of €410 million (≈ $466 million) to acquire a portion of Atos's former Advanced Computing business, following its comprehensive restructuring in 2024. Once a European tech leader valued at over €10 billion, Atos strategically shed parts to stabilize finances. The proposed acquisition excludes Atos's Vision AI operations, which will remain within its Eviden unit. This move reflects France's commitment to securing sovereign high-performance computing infrastructure amid global competition and aligns with broader efforts to maintain national control over critical AI and supercomputing capabilities. | By Reuters |  | June 2, 2025 |
| 5.3 | **Anthropic Hits $3 Billion Annualized Revenue on Enterprise AI Demand** | Anthropic, the San Francisco–based AI startup founded in 2021, has achieved an annualized revenue of $3 billion as of May's end—triple its December 2024 run rate of $1 billion, following a $2 billion benchmark in March. This meteoric growth, driven primarily by enterprise appetite for generative AI tools, especially code generation via its Claude model, positions Anthropic among the fastest-growing SaaS companies ever. Despite trailing OpenAI in consumer adoption, its business traction is attracting major backers like Alphabet and Amazon. This performance underscores the strategic shift toward enterprise-first AI deployments and the evolving business landscape. | By Anna Tong and Jeffrey Dastin |  | May 30, 2025 |
| 5.4 | **New York Times and Amazon Sign First Generative AI Licensing Deal** | The New York Times (NYT) has inked its first-ever multiyear generative AI licensing agreement with Amazon, allowing the tech giant to access NYT editorial content—ranging from news articles to NYT Cooking and The Athletic—to train its proprietary AI models and integrate into Alexa | By Jaspreet Singh |  | June 1, 2025 |

| AI Policies Regulations & Strategies | | | | | |
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| | | experiences. The deal permits real-time display of summaries and short excerpts, reflecting NYT's strategy that quality journalism merits compensation. This move comes amid ongoing legal action against OpenAI and Microsoft for unauthorized use of NYT content. While financial terms were not disclosed, the agreement signals a broader trend of strategic partnerships in the media-AI landscape. | | | |
| 5.5 | **BOND 2025 AI Trends Report Highlights Explosive Ecosystem Growth** | BOND's 2025 AI Trends report reveals unprecedented growth in the global AI ecosystem, driven by surging developer engagement and user adoption. The report tracks over 100M GitHub AI project commits and notes that AI startups raised more than $35 billion in the past year. Enterprise usage of AI tools—especially copilots and agents—has doubled, and open-source models now account for 40% of production deployments. Notably, leading models are compressing the "idea-to-product" timeline by 5–10×, marking a shift in how businesses innovate. This comprehensive analysis solidifies AI's central role in the next wave of digital transformation. | By Bond |  | May 30, 2025 |
| 5.6 | **Elon Musk's xAI Launches $5B Debt Sale to Fund AI Infrastructure** | Elon Musk's AI startup xAI has launched a $5 billion debt sale to finance its ambitious AI infrastructure and model development plans. The funds will be used to scale up data center operations, support extensive AI training workloads, and attract top AI talent. This financial move highlights Musk's determination to build a competitive AI platform capable of challenging industry leaders. The debt offering is a strategic effort to secure capital without diluting ownership, underscoring the increasing capital intensity required to develop state-of-the-art AI technologies. | By Mike Wheatley |  | June 2, 2025 |
| 5.7 | **Sysdig Detects AI-Assisted Malware** | Sysdig has uncovered a surge in AI-assisted malware attacks targeting misconfigured open WebUIs in containerized environments. These | By Duncan Riley |  | June 2, 2025 |

| AI Policies Regulations & Strategies | | | | | |
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| | **Exploiting Open WebUI Misconfigurations** | sophisticated threats use AI to probe vulnerabilities and escalate attacks more efficiently. The malware exploits exposed Kubernetes dashboards and API servers, compromising cloud-native infrastructures. Sysdig warns that as AI tools become more accessible, attackers can automate complex exploits at scale, increasing risks for enterprises. The findings underscore the urgent need for stringent security practices and continuous monitoring of AI-powered attack vectors. | | | |
| 5.8 | **Cube Launches Semantic Data Layer to Automate Analytics with AI Agents** | Cube, a semantic data layer startup, has introduced new tools to automate analytics workflows using AI agents. The platform translates complex business questions into executable data queries, enabling AI agents to generate reports, dashboards, and insights autonomously. By bridging data sources and AI-driven analytics, Cube helps organizations streamline decision-making and reduce reliance on manual data preparation. The solution aims to empower non-technical users while improving data accuracy and operational efficiency across enterprises. | By Mike Wheatley |  | June 2, 2025 |
| 5.9 | **Apple Challenges EU Order to Open Up App Store to Rivals** | Apple is contesting a European Commission order requiring it to allow rival app stores and alternative payment systems on iPhones. The EU's Digital Markets Act aims to foster competition and reduce Apple's control over its ecosystem. Apple argues the mandate undermines user privacy and security. The legal challenge highlights tensions between tech giants and regulators striving to balance innovation, competition, and consumer protection in the digital economy. The outcome could reshape app market dynamics and set precedents for future AI and platform regulations. | By Foo Yun Chee |  | June 2, 2025 |
| 5.10 | **Windsurf Claims Anthropic Limits** | Windsurf has claimed that Anthropic has restricted its direct access to the Claude AI models, affecting its ability to build and scale applications using | By Maxwell Zeff |  | June 3, 2025 |

| AI Policies Regulations & Strategies | | | | | |
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| # | Highlights | Summary | Author | Source | Date |
| | **Direct Access to Claude AI Models** | the advanced language model. The restriction comes as part of Anthropic's strategy to regulate access to its AI systems amid growing demand and concerns over misuse. While Anthropic maintains that the move is aimed at ensuring safe deployment and responsible use, it has sparked debates about the control over access to cutting-edge AI technologies and the impact on innovation. | | | |
| 5.11 | **OpenAI Board Drama Set to Be Adapted into a Movie** | The dramatic events surrounding OpenAI's board disputes are reportedly being adapted into a movie. The internal turmoil, which included the controversial firing and reinstatement of CEO Sam Altman, has captured widespread attention. The film will explore the tensions between board members, the company's nonprofit structure, and its shift toward for-profit operations. With high stakes in the tech industry, the story promises a compelling narrative about power struggles, corporate governance, and the future of AI. | By Lauren Forristal |  | June 3, 2025 |
| 5.12 | **Asana Shares Drop Despite Beating Earnings Estimates, Revenue Growth Slows** | Asana's shares dropped following its latest earnings report, which showed slower revenue growth despite surpassing analysts' earnings expectations. The company reported strong profits, but its growth trajectory has begun to decelerate, raising concerns among investors. CEO Dustin Moskovitz emphasized that while the company's AI-driven productivity tools are gaining traction, challenges in scaling to new markets and intensifying competition are affecting long-term forecasts. Asana aims to refocus on optimizing AI features to drive more user engagement and solidify its position in the enterprise software market. | By Duncan Riley |  | June 3, 2025 |
| 5.13 | **Meta Signs 20-Year Nuclear Power Deal** | Meta has entered into a 20-year agreement with Constellation Energy to power its data centers with nuclear energy. This deal aims to reduce Meta's | By The Guardian |  | June 3, 2025 |

| AI Policies Regulations & Strategies | | | | | |
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| | **with Constellation Energy** | carbon footprint and support its long-term sustainability goals by sourcing clean, reliable energy. The partnership aligns with Meta's commitment to achieving net-zero emissions and accelerating the transition to renewable energy sources. The move also highlights the increasing importance of clean energy in powering AI infrastructure, as companies look to balance technological advancements with environmental responsibility. | | | |
| 5.14 | **AI Pioneer Yoshua Bengio Launches Nonprofit LawZero AI Lab** | Yoshua Bengio, a leading AI pioneer, has launched *LawZero*, a nonprofit AI lab focused on applying AI to the legal sector. The lab aims to develop AI models that enhance legal research, automate document analysis, and improve access to justice. LawZero will focus on ethical AI practices and transparency, ensuring that AI tools in law are fair, unbiased, and effective. This initiative underscores the growing role of AI in transforming industries like law, while promoting socially responsible and equitable AI applications. | By Maria Deutscher | | June 3, 2025 |
| 5.15 | **IBM launches watsonx AI Labs in NYC to accelerate enterprise AI innovation.** | IBM has unveiled watsonx AI Labs in New York City, aiming to bolster AI innovation among startups and enterprises. This accelerator provides participants with mentorship, technical expertise, and potential investments via IBM Ventures and the Enterprise AI Venture Fund. Central to this initiative is IBM's acquisition of Seek AI, a data platform specializing in AI solutions for sectors like e-commerce and finance. Seek AI's technology will underpin the Labs, enhancing IBM's enterprise AI capabilities. This move underscores IBM's commitment to positioning NYC as a leading hub for AI advancement. | By IBM Newsroom | | June 2, 2025 |
| 5.16 | **UK Launches "Supercharged Sandbox" with** | The UK's Financial Conduct Authority (FCA) has partnered with Nvidia to launch a "Supercharged Sandbox" in **October 2025**, enabling regulated firms to experiment with AI-driven financial tools in a secure environment. | By Sam Tabahriti | | June 9, 2025 |

| AI Policies Regulations & Strategies | | | | | |
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| # | Highlights | Summary | Author | Source | Date |
| | **Nvidia to Test AI in Finance** | This aligns with broader government goals—backed by Prime Minister Keir Starmer and Finance Minister Rachel Reeves—to supercharge AI innovation and economic growth by expanding Britain's domestic computing capabilities by 20× with £1 billion in funding. Participating financial services companies will gain access to Nvidia's accelerated computing, datasets, technical expertise, and regulatory guidance to explore applications like fraud detection, risk analytics, and process automation | | | |
| 5.17 | **UK pushes for sovereign AI via compute, infrastructure & standards.** | The UK government unveiled a national push for sovereign AI at London Tech Week, establishing the Sovereign AI Industry Forum in partnership with NVIDIA and major firms like BT, BAE Systems, and National Grid. Plans include deploying over 14,000 Blackwell GPUs by 2026 via Nscale and Nebius, launching a new NVIDIA AI Technology Center, and boosting academic-industrial collaboration through initiatives at UCL and the University of Bristol. This positions the UK as an "AI maker" rather than just a user. | By Anthony Hills |  | June 8, 2025 |
| 5.18 | **NVIDIA and UK Prime Minister Kick Off AI-Driven London Tech Week** | At London's Olympia, NVIDIA CEO Jensen Huang and UK Prime Minister Sir Keir Starmer launched London Tech Week, signaling a shift where AI becomes national policy. The UK aims to be an "AI maker, not taker," with NVIDIA supporting sovereign AI ambitions. Partnerships with Wallenberg Investments, AstraZeneca, and others are building Sweden's AI infrastructure using the NVIDIA Grace Blackwell platform. In Germany, the Leibniz Supercomputing Centre develops Blue Lion, a €250M AI supercomputer. France's AI Campus in Paris, a 1.4 GW facility, advances sustainable AI. | By David Hogan |  | June 9, 2025 |

| AI Policies Regulations & Strategies | | | | | |
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| # | Highlights | Summary | Author | Source | Date |
| 5.19 | **National security expert joins Anthropic's oversight body to guide responsible AI development.** | Anthropic has appointed Richard Fontaine, CEO of the Center for a New American Security, to its Long-Term Benefit Trust. This governance body holds a controlling interest in Anthropic and aims to ensure that the company's AI advancements serve humanity's long-term interests. Fontaine's background in national security policy is expected to help guide Anthropic's alignment with ethical, safe AI deployment. This move reflects a growing industry trend of involving policy experts in AI oversight to balance innovation with global safety considerations. | By Anthropic Newsroom |  | June 7, 2025 |

| AI Events & People | | | | | |
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| # | Highlights | Summary | Author | Source | Date |
| 6.1 | **TechCrunch Sessions: AI Returns June 5 with Frontier Model Leaders and Live Startup Pitches** | TechCrunch Sessions: AI will convene on June 5 at UC Berkeley's Zellerbach Hall, featuring leaders from OpenAI, Anthropic, Google Cloud, and more. The agenda includes a fireside chat with Anthropic's Jared Kaplan on frontier models, breakout sessions on enterprise AI deployment, and the "So You Think You Can Pitch" startup competition offering real-time VC feedback. Attendees can network via the Braindate app, facilitating topic-based meetups. Discounted tickets are available through June 4, with additional savings through an AI trivia challenge. | By TechCrunch Events |  | June 1, 2025 |

| AI Events & People | | | | | |
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| # | Highlights | Summary | Author | Source | Date |
| 6.2 | **The AI Summit London 2025 to spotlight AI's role in shaping the future of work and public services.** | The AI Summit London 2025, scheduled for June 11–12 at Tobacco Dock, will convene over 4,500 attendees, including policymakers, technologists, and industry leaders, to discuss AI's impact on the future of work and public services. The event will feature eight content stages, immersive demos, and networking opportunities. Key topics include generative and agentic AI, AI governance, and workforce upskilling. Notable speakers include UK Science Secretary Peter Kyle and executives from Goldman Sachs, Novartis, and Coinbase. The summit aims to address AI's transformative potential and the importance of responsible innovation. | By The AI Summit London 2025 | | June 11-12, 2025 |
| 6.3 | **WWDC 2025: Everything announced, including Liquid Glass, Apple Intelligence updates, and more** | Apple's WWDC 2025 keynote introduced "Liquid Glass," a glossy, responsive UI applied across iOS/iPadOS 26, macOS Tahoe, watchOS 26 and tvOS 26. Apple Intelligence gained on-device Foundation Models for developers, Visual Intelligence screen search, Live Translation and a Workout Buddy coach. Other highlights: a dedicated Games app with social leaderboards; visionOS 26 spatial widgets and lifelike Personas; tvOS profile switching; CarPlay widgets/tapbacks, AirPods studio-quality recording, and digital passports plus smarter boarding passes in Wallet. Renamed OS versions now match the calendar year ("26"), unifying Apple's platform branding. | By Lauren Forristal Sarah Perez | | June 9, 2025 |

**Conclusion**

- The AI field is seeing a strong drive toward larger context windows, faster decoding, and richer multimodal reasoning, alongside vigorous efforts to compress, align, and secure these systems for everyday use.
- The narrative is no longer purely technical; geopolitical competitiveness, ethical safeguards, and sustainable energy are now critical considerations.

- There's a significant shift from proof-of-concept to production, with enterprises like Anthropic ($3 billion run rate) and OpenAI (3 million business users) validating generative AI's economic value, leading to increased scrutiny over access, licensing, and data sovereignty.
- Hardware-software co-design is tightening, as innovations such as KV-cache compression and Broadcom's chiplet-based switching highlight the increasing reliance on domain-specific silicon and networking breakthroughs.
- Alignment research is evolving from abstract principles to measurable practices, with tools like RewardBench 2, quantitative LLM judges, and shortcut-neuron analysis providing sharper instruments for auditing model behavior.
- National strategies are crystallizing around the notion of "sovereign AI," with countries viewing AI capability as critical infrastructure, akin to energy or telecom.
- Ultimately, AI progress is a multidimensional relay, where breakthroughs in one domain—be it model compression, legal licensing, or clean-energy sourcing—rapidly propagate across the entire stack, demanding interdisciplinary collaboration and forward-looking governance.