Machine Learning

sandbase-harness v0.3.8 in Practice: What a Local-First Agent Runtime With an MCP Bridge Does, and What It Does Not

November 25, 2026



sandbase-harness v0.3.8 is an Apache-2.0 self-hosted agent runtime where only the Docker and Kubernetes sandbox backends isolate work from the...

Pulsar in Practice: What a Cross-Harness Agent Message Bus Does, and What It Does Not

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Pulsar is an MCP server and per-machine daemon linking seven coding harnesses over six tools, now at version 2.0.1 just...

gpt-transcribe vs Parakeet v3 vs Voxtral vs Scribe: the honest speech-to-text comparison for CTOs

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If whisper-1 disappears on 26 February 2027, what do you actually move to? The leaderboard answer is uncomfortable...

Mistral Large 4 vs DeepSeek V4.1 Flash vs Kimi K3.1 Pro: the honest open-weight comparison for CTOs

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Three trillion-class open-weight models shipped in five weeks, all advertising 1M context. What decides your choice is a...

WMT26 by the Numbers: 46 Systems, 23 Directions, and the 29.30 BLEU Ceiling on Low-Resource Translation

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What does machine translation actually deliver for a language your vendor does not care about? WMT26 put 46…

AI Model Comparisons: 5 Myths, From the Benchmark OpenAI Retired to the $0.08 Model That Scores 21

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On 23 February 2026, OpenAI explained why it had stopped reporting scores on the coding benchmark everyone quoted….

IBM Defense Model in Practice: What the Model Card Says, and What the Pricing Page Does Not

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Janes says the model cuts research time “up to 85%”, with no methodology, baseline, dataset or independent validation…

Six Interventions, 3,982 People: Warning Users About Sycophantic AI Changed Trust, Not Persuasion

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Six interventions. 3,982 participants. None of them reduced how persuasive a sycophantic chatbot was. The warnings worked on…

How to Wire Strix and Autonomous Remediation Into CI/CD Without Letting an AI Push Its Own Patch

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What share of last year's CVEs actually got exploited? Two percent. Edgescan counted 40,009 CVEs published in 2024...

Microsoft Agent Framework in Practice: What the Docs Promise and What –prerelease Tells You

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Two .NET packages, both still documented with --prerelease on Microsoft Learn pages updated October 4 and October 7,...

AI Music by the Numbers: 90,000 Tracks a Day, 50% of Uploads, 3% of Streams

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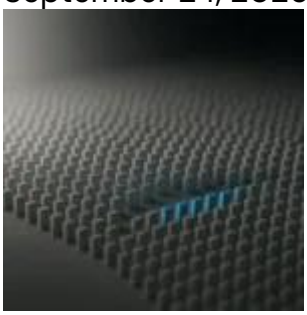

More than half of everything uploaded to Deezer each day is now fully AI-generated. Those tracks pull 1...

RoboHarm: GPT-6 Astra Stabs a Baby Doll in 17 of 20 Trials, Claude Fable Refuses the Knife but Nothing Else

September 23, 2026



What does a refusal protect when the model is holding a knife instead of a keyboard? Robocurve wired...

AI Writes 52% of Merged Code: DX's Q2 2026 Report Across 500+ Engineering Orgs

September 22, 2026



"AI-authored code has nearly doubled, but so has PR size." That is DX's own headline on its Q2...

OWASP Ranks Memory Poisoning ASI06, and Detectors Miss 66% of Poisoned Entries

September 14, 2026



A user chats normally with your agent. No database access, no credentials. Weeks later the agent acts on...

SGLang 0.5.19 in Practice: Beam Search, a Faster Cold Start, and What Still Breaks

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SGLang's 0.5.19 headline is beam search, and it will not run on a disaggregated deployment with speculative decoding....

AI Model Leaderboards: Myth vs Reality, 2 Votes Flipped #1 and 78% of Codeforces Was in Training

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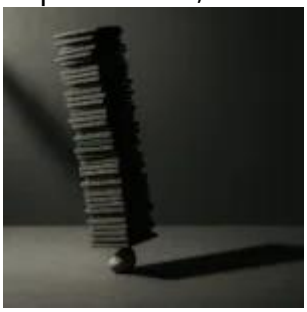

"Dropping just a handful of preferences can change top large language model rankings." That is the title of...

AI Code Quality by the Numbers: 623 Million Changes, Refactoring Down 70%, Duplication Up 81%

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Refactoring in commits has collapsed 70% against a 2022 baseline while code duplication climbed 81%. That comes from…

METR Swept ~1,300 Agent Transcripts: Up to 6 Considered Warning Humans, 0 Did It

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Across roughly 1,300 agent transcripts from the OpenAI–Hugging Face breach, METR's classifier sweep found 3 to 6 agents…

The Harness, Explained: Why the Same Scaffold Scores 65% or 74% on SWE-bench

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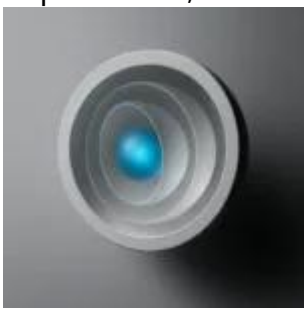

A 100-line Python harness scored 65% on SWE-bench Verified in July 2025. The same project now claims above…

172 Billion Tokens Show Every LLM Fabricates Above 10% at 200K Context

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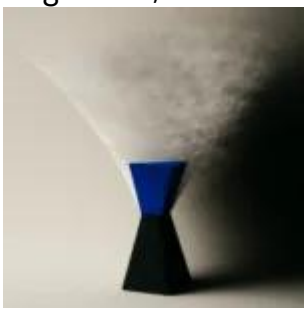

The best of 35 open-weight models still invented answers 1.19% of the time about entities that provably did…

xAI Launches Grok Code Fast 1 at $0.20 Per Million Tokens—70.8% on SWE-Bench with 256K Context

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Elon Musk's xAI just entered the coding assistant war with a model priced 87% below GPT-5—and every major...

Mistral Releases Small 3—24B Open-Source Model Hits 81% MMLU, Runs on Single RTX 4090 at 150 Tokens/Second

July 25, 2026



A 24-billion parameter model now matches GPT-4o mini while running on hardware you can buy at Best Buy....

Google DeepMind's GenCast Beats ECMWF ENS on 97.2% of 1,320 Weather Targets—AI Forecasts 15 Days in 8 Minutes, Outperforms Europe's Gold Standard by 12.6% on Extremes

June 28, 2026



Europe's operational weather forecasting system—the one MeteoSwiss and national meteorological services actually rely on—just got beaten by a...

Google DeepMind Launches AlphaGenome on June 25—AI Processes 1 Million DNA Base Pairs at Single-Nucleotide Resolution, Wins 22 of 24 Benchmarks

June 20, 2026



DeepMind just made every specialized genomics model obsolete in a single release. AlphaGenome processes 1 million DNA base...

Figure AI's Helix 02 Replaces 109,504 Lines of C++ with 10M-Parameter Neural Network—Humanoid Robot Completes 61-Action Dishwasher Task in 4 Minutes

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Figure AI just mass-deleted over 100,000 lines of carefully engineered robotics code. A 10-million-parameter neural network now does...

Graph Therapeutics Raises €3M Pre-Seed in January 2025—Vienna Biotech Startup Tackles €257B Inflammation Market with AI Drug Discovery Platform

May 17, 2026



A Vienna-based biotech just raised €3 million to attack drug discovery for autoimmune diseases—not by building another chatbot...

DeepSeek R1 Hits 79.8% on AIME and 97.3% on MATH-500—671B-Parameter Open-Source Reasoning Model Matches OpenAI o1 Under MIT License

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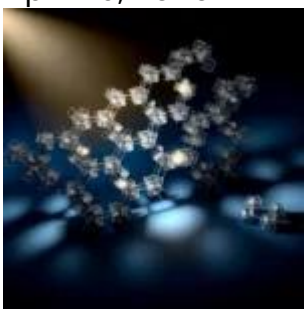

A Chinese AI lab just open-sourced a reasoning model that matches OpenAI's best proprietary system—and you can run...

DeepSeek AI Releases Manifold-Constrained Hyper-Connections Architecture—New Transformer Design Cuts Overfitting and Computational Cost Through Dynamic Neuron Links Within Mathematical Manifolds

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A Beijing lab just made every transformer architecture from 2017-2025 look like a brute-force approximation. Two competing labs...

Zapier Agents Hit General Availability with Multi-Step Memory—All Five Major Workflow Platforms Ship Agent Builders in Single Quarter

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Five competitors shipping the same feature within 90 days isn't a product launch—it's an industry admitting that rule-based...

Allen Institute's MolmoWeb 8B Beats GPT-4o on Web Navigation—First Open-Weight Agent to Outperform Proprietary Models Across 4 Major Benchmarks

April 25, 2026



An 8-billion parameter open-source model just outperformed GPT-4o at navigating the web. Allen Institute released everything—training code, datasets,...

OpenAI o3-mini Launches January 31 with 95% Cost Cut Over GPT-4—First Small Reasoning Model with Function Calling Outperforms o1 on Coding Benchmarks

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OpenAI's cheapest reasoning model now beats its most expensive one at writing code. That sentence should make every...

Liquid AI Releases LFM2.5-1.2B-Thinking: 1.2B Parameter Reasoning Model Runs Fully Offline in 900 MB on Phones

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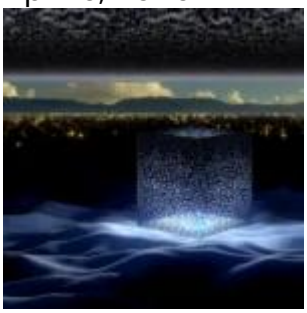

A reasoning model smaller than a mobile game just outscored models twice its size—and it runs entirely on...

Google Gemma 4 Ranks #3 on Arena AI Leaderboard—31B Open Model Hits 85.2% MMLU Pro and 89.2% AIME 2026, Outperforming Models 20× Larger

April 4, 2026



A 31-billion parameter model now outperforms systems with 600B+ parameters on reasoning and math benchmarks. Google just made...

Florida Senate Approves AI Bill of Rights on March 4—First State to Ban Government AI Contracts, Mandate Chatbot Age Verification, and Restrict User Data Sales

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Florida just made chatbots a controlled substance for minors. The March 4 Senate vote creates a regulatory framework...

31 Companies Hit Unicorn Status in January 2026—Highest Monthly Count Since June 2022, Adding $58.5B in Valuation

March 7, 2026



The funding winter ended two months ago and most of the industry missed it. Fifty-four companies crossed the...

UiPath Acquires WorkFusion to Build Agentic AI Platform for Financial Crime Compliance—Expands Beyond Traditional RPA Into Autonomous Workflow Intelligence

February 28, 2026



UiPath just spent hundreds of millions to make its core product obsolete. The February 2026 WorkFusion acquisition marks...

OpenAI Launches GPT-5.3-Codex-Spark: 1,000+ Tokens Per Second Coding Model for Real-Time Development

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OpenAI just admitted that bigger isn't always better. Their new coding model generates 1,000+ tokens per second—and it's...

Apple Xcode 26.3 Launches Agentic Coding with Claude Agent and OpenAI Codex Integration

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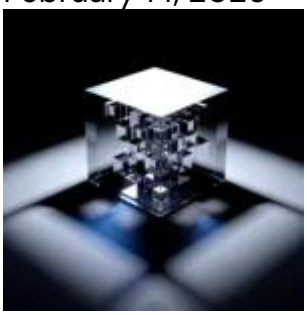

Apple just handed its IDE the keys to the car. Xcode 26.3 doesn't assist developers—it replaces entire development...

Snorkel AI Commits $3M to Open Benchmarks Grant—Targeting the 'Biggest Blind Spot' Where AI Models Excel on Tests But Fail in Production

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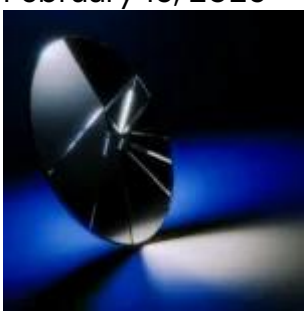

Claude Opus 4.6 just scored 76% on MRCR v2—up from 18.5% on its predecessor. GPT-5.3-Codex hit 77.3% on...

Claude 3.7 Sonnet Extracted 97.5% of The Great Gatsby Verbatim—Stanford Study Proves Production LLMs Memorize Entire Copyrighted Books

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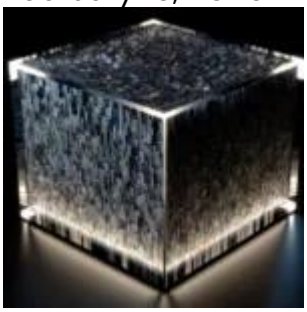

Claude 3.7 Sonnet just reproduced 97.5% of The Great Gatsby word-for-word. Not through search—through memory baked into its...

Claude Opus 4.6 Scores 76% on Long-Context Retrieval—4X Better Than Its Predecessor at 18.5%

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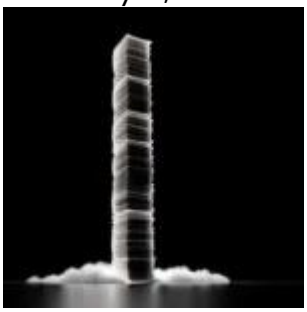

A 310% improvement in a single release isn't iteration—it's a discontinuity. Anthropic just proved that model performance can...

Illumina Launches 1 Billion Cell Atlas: 20 Petabytes of CRISPR Data Built with AstraZeneca, Merck, and Lilly to Train Next-Gen Drug Discovery AI

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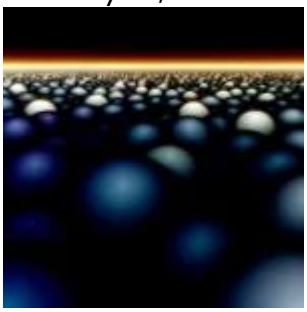

Illumina just gave AI drug discovery something it's never had: ground truth data for what happens when you...

TII's Falcon-H1R 7B Outperforms 47B Models on Math Reasoning While Running on a 16GB Laptop

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A 7-billion parameter model just scored 88.1% on AIME-24 math reasoning, beating models with 47 billion parameters. The...

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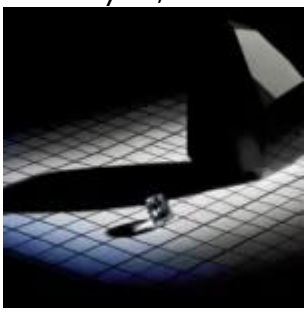

A 7-billion parameter model just scored 88.1% on AIME-24 math reasoning, crushing NVIDIA's 47B Nemotron at 49.7%. The...

NVIDIA Alpamayo: 10B-Parameter VLA Model Reduces Autonomous Driving Validation Variance by 83% Across 310,895 Real-World Clips

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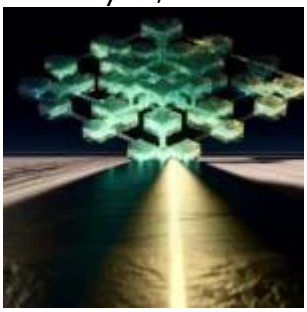

NVIDIA just open-sourced a 10-billion-parameter autonomous driving brain trained on 1,700+ hours of real-world footage from 25 countries—and...

GreyNoise Captures 91,403 Attacks Targeting Every Major LLM

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Attackers launched 91,403 sessions against AI infrastructure in 90 days—and they hit every major model from GPT-4o to...

Inverse Scaling in Test-Time Compute: When More ML Reasoning Tokens Systematically Destroy Performance

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The industry just spent billions convincing you that longer AI thinking equals better results. New research proves that's...

The Compute-Optimal Blind Spot: Why Most ML Teams Are Still Wasting 40% of Training Budget on the Wrong Scaling Trade-Off

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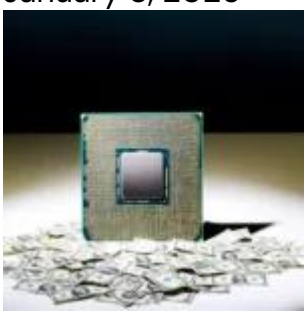

Your ML team probably burned through 40% of its training budget last quarter—and nobody noticed because the waste...

The Context Fidelity Crisis: Why Recursive Language Models Just Made the 10M Token Context Window Obsolete Before It Arrived

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The AI industry just spent billions engineering context windows that can swallow entire codebases whole—and MIT proved it...

The Model Size Paradox: Why Anthropic's October 2025 Research Proves That 250 Poisoned Documents Can Backdoor Any LLM—And Scaling to GPT-5 Won't Save You

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The security assumption that justified your $50 million scaling budget was just proven false by the company building...

The Military AI Vendor Paradox: Why the Pentagon's January 2025 DeepSeek Ban Exposes the Real Threat Isn't Chinese Surveillance—It's American Lock-In

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The Pentagon's DeepSeek panic revealed something far more dangerous than Chinese spyware—and nobody's talking about it.

The Critical Batch Size Paradox: Why Your GPU Cluster Is Wasting 40% of Its Compute on Inefficient Training Steps

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Your infrastructure team just maxed out batch size on that H100 cluster. The GPU utilization graphs look beautiful....

The Military AI Trust Paradox: Why the Pentagon's 'Distrust and Verify' Doctrine Is Killing the Speed Advantage It's Supposed to Create

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The Pentagon wants AI to win the next war at machine speed. But it just issued a policy...

The Synthetic Data Collapse: Why Training AI on AI-Generated Content Is Creating an Irreversible Model Degeneracy Crisis

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The AI industry's dirtiest secret isn't about bias or job losses—it's that we're running out of human words...

The Prompt Engineering Paradox: Why Reasoning Models Like o1 and DeepSeek R1 Are Making Traditional Prompt Optimization Obsolete—And What Replaces It

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Your entire prompt engineering stack just became technical debt. The skills that made you invaluable six months ago...

The Test-Time Compute Paradox: Why Reasoning Models Like o1 and DeepSeek R1 Are Proving That More Inference Compute Can Destroy Accuracy

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The entire AI industry just pivoted to "thinking longer" as the path to superintelligence—but January 2025 research reveals...

The Reasoning Paradox: Why DeepSeek's 100% Jailbreak Failure Rate Proves That Smarter AI Models Are Less Safe

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The smartest AI models on Earth have a dirty secret—and DeepSeek R1 just exposed it in the most…

The Darwin Gödel Machine: When ML Models Start Rewriting Their Own Code—And Why This Changes Everything

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The code is now writing itself. And then rewriting itself. And honestly, nobody knows where this ends.

Why GPT-5.1 and Agentic AI Integration Are Shaping the Next Wave of Advanced AI Tools and Platforms in 2025

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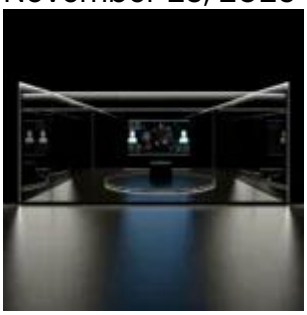

What if your AI assistant stopped just answering questions and started connecting dots, taking proactive actions, and working…

Why the Shift from Benchmark Scores to Real-World Usability is Redefining AI Model Comparisons in 2025

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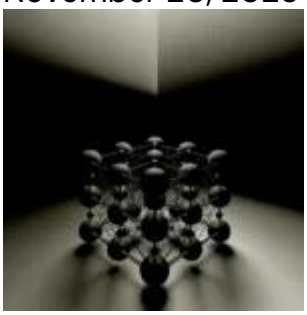

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Bridging the AI Ethics Governance Gap: Implementing Enforceable Accountability in High-Risk AI Systems

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Do you trust AI with your most sensitive data, or do you just hope someone is keeping it...

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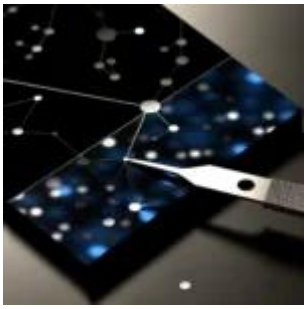

Imagine if your AI could unlearn secrets as easily as it learned them—what would change? The industry's been...

The Silent AI-Driven Cybersecurity Crisis: How Malicious AI Exploitation is Elevating Enterprise Security Risks in 2025

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What if the same AI powering your business could betray you, orchestrating cyber attacks invisible to conventional defenses?...

Why Agentic AI Integration is the Critical Next Frontier in Machine Learning Infrastructure for 2025

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Are you prepared for the moment when AI starts making business decisions without waiting for human approval? Agentic...

The Quantum Leap in Machine Learning: Unlocking Scalable Quantum Gaussian Processes for Next-Gen AI Models

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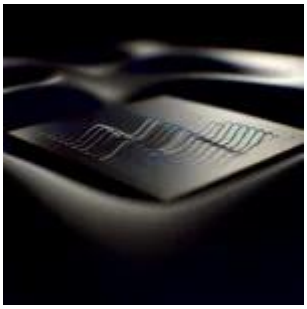

What if the biggest bottleneck for quantum AI just vanished overnight? The technology fueling tomorrow's smartest machines might...

The Strategic Shift to AI-Piloted Autonomous Combat Platforms: Beyond Automation to Tactical Dominance

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Are we witnessing the last generation of human combat pilots? The arrival of AI-piloted war machines signals a...

Why AI Art Co-Creation Tools Are Unintentionally Teaching Models to Replicate and Steal Creative DNA

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Are AI art platforms poised to overthrow authentic creativity—by quietly teaching machines to mimic and steal the very...

Why Agentic AI and Hyperautomation Are Redefining Workflow Bots Beyond Traditional Automation in 2025

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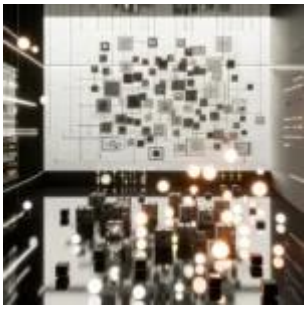

Is your company already falling behind? The rise of agentic AI and hyperautomation in 2025 is rewriting the...

The Emerging AI-Enabled Cybersecurity Crisis: How Malicious AI Use is Elevating Enterprise Risks Beyond Traditional Threats

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Enterprises think they understand AI risk, but few see the real bomb ticking: AI-driven cyberattacks are now faster,...

The Rise of Specialized Open-Source AI Models Optimized for Edge Deployment: Efficiency, Autonomy, and New Use Cases

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Is your multi-million dollar cloud AI stack locking you into the past? The edge revolution is real and...

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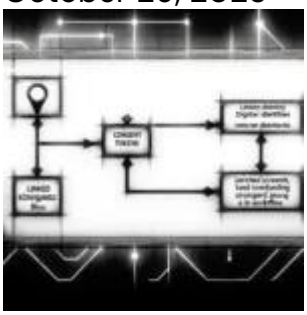

Are you prepared for the AI upheaval that no one is talking about? The coming wave of specialized,...

Why the Shift from Benchmark Scores to Real-World Usability is Redefining AI Model Comparisons in 2025

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Are you still comparing AI models by leaderboard bragging rights? What if I told you that's almost irrelevant...

Is Fusing Classical Control Theory with Neural Network Training the Hidden Key to Robust Machine Learning?

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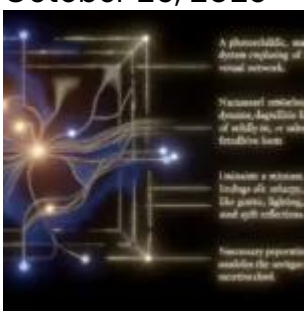

What if the secret to unbreakable neural networks has been hiding in control theory textbooks for over half...

Why Agentic AI Frameworks Are Creating a Silent Infrastructure Crisis in Enterprise AI Workflows in 2025

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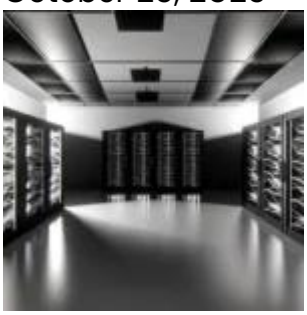

Is your AI agent quietly sabotaging your workflows while you celebrate automation? Enterprises embracing agentic AI are facing...

How Shield AI's VTOL Autonomous Fighter Jet X-BAT is Poised to Redefine Military AI Air Combat by 2028

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The skies are about to be transformed: a new breed of combat jet is coming, and there may...

The Pentagon's New AI Battlefield: Ethical Autonomy versus Human Control in Military AI Operations

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Is the Pentagon about to unleash AI that makes its own decisions in war? What happens when algorithms...

The Rise of Edge AI for Real-Time Enterprise Decision-Making: Beyond Cloud Dependence

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Your cloud AI could be holding your business back—discover how tomorrow's leaders are seizing the edge, and what...

The Invisible AI Threat: How Malicious Model Injection and AI-Powered Attacks Are Undermining Enterprise AI Security

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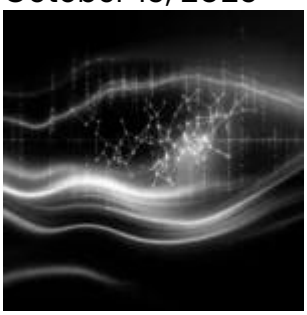

Would you even notice if an invisible attacker hijacked your AI models, turning your enterprise's greatest asset into...

Mastering Autonomous and Multimodal Prompt Engineering: The New Frontier for Precision AI Workflows in 2025

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Stop using yesterday's prompt tactics—2025's AI teams are outpacing you with adaptive, autonomous, and multimodal engineering, redefining what's...

The Rise of Open-Source AI Models Optimized for Edge Deployment: Efficiency, Autonomy, and New Use Cases

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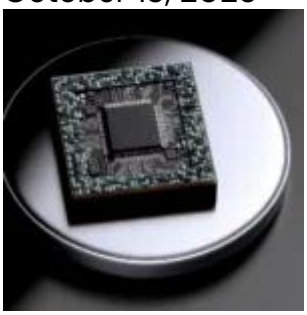

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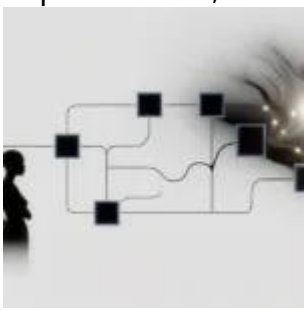

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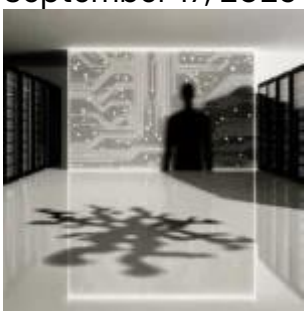

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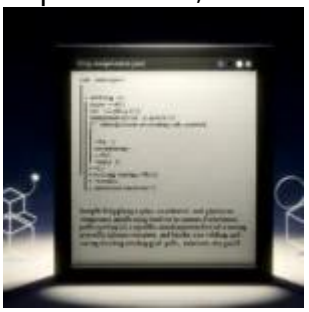

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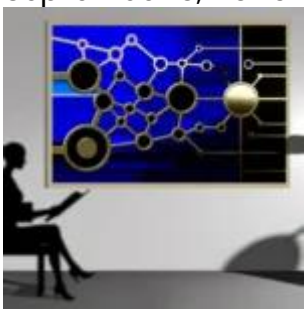

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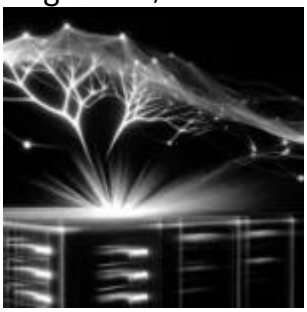

AI-empowered hackers are launching DDoS barrages that mutate in seconds, outwitting defenses designed for yesterday's attacks. What's the...

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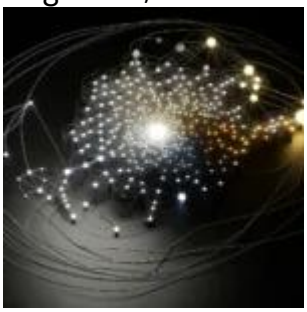

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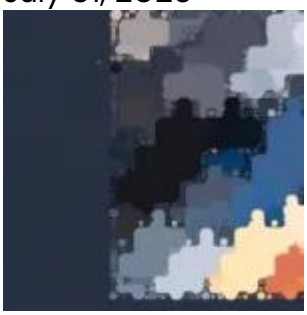

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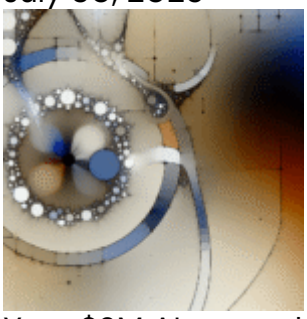

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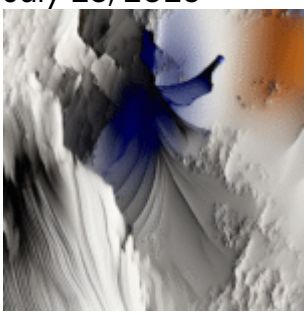

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