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3 deep-dives you should really read

Salesforce rolls out new Slackbot AI agent as it battles Microsoft and Google in workplace AI

VentureBeat – AI · Topic: **AI/Cloud/Quantum**

- **What it is:** Salesforce has launched an entirely rebuilt Slackbot, transforming its workplace assistant into a powerful AI agent capable of complex enterprise tasks for Business+ and Enterprise+ customers.
- **Who:** Salesforce, powered initially by Anthropic's Claude and eyeing Google's Gemini, launched the new Slackbot to compete with Microsoft and Google in the evolving workplace AI market.
- **What it does:** The new Slackbot AI agent searches diverse enterprise data sources, drafts documents, takes actions, synthesizes complex information, and facilitates collaborative workflows for employees.
- **Why it matters:** This launch aggressively positions Slack at the forefront of 'agentic AI,' demonstrates Salesforce's commitment to AI-driven product evolution, and promises significant enterprise productivity gains based on internal testing.
- **Strategic view:** Salesforce strategically positions Slack as the AI-powered orchestrator of enterprise workflows, aiming to deepen platform stickiness, counter hyperscaler competition, and drive significant productivity by integrating diverse data and tools.

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This new, dead simple prompt technique boosts accuracy on LLMs by up to 76% on non-reasoning tasks

VentureBeat – AI · Topic: **AI/Cloud/Quantum**

- **What it is:** This new, dead simple prompt technique significantly improves Large Language Model performance by merely repeating the input query twice.
- **Who:** Google Research, led by Yaniv Leviathan, Matan Kalman, and Yossi Matias, developed this effective prompt repetition technique for LLMs.
- **What it does:** It dramatically boosts LLM accuracy for non-reasoning tasks, like precise data retrieval, by allowing models to effectively process the full query twice.
- **Why it matters:** This technique leverages transformer architecture to overcome a causal blind spot, improving output accuracy by up to 76% without significant latency or cost penalties.
- **Strategic view:** For TMT executives, this "free" optimization offers a tactical way to enhance AI application accuracy and potentially utilize smaller, more cost-effective LLMs for specific tasks.

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DeepSeek's conditional memory fixes silent LLM waste: GPU cycles lost to static lookups

VentureBeat – AI · Topic: **AI/Cloud/Quantum**

- **What it is:** DeepSeek's "conditional memory," or Engram, is a novel LLM architecture that efficiently separates static knowledge retrieval from dynamic reasoning processes to optimize performance.
- **Who:** DeepSeek, an advanced AI research firm, developed Engram, challenging traditional assumptions about how neural networks internally manage different types of information.
- **What it does:** It reduces GPU cycle waste by offloading static information lookups to cheaper CPU memory, improving both reasoning accuracy and knowledge retrieval efficiency in large language models.
- **Why it matters:** This innovation substantially lowers the operational cost and infrastructure demands for enterprise AI deployments, making high-performance LLMs more accessible and scalable for businesses.
- **Strategic view:** TMT executives should strategically assess hybrid AI infrastructure designs leveraging CPU memory for static data, shifting investment focus from pure GPU scaling to optimize cost-efficiency and model capability.

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