A Daily chronicle of AI Innovations May 06th 2024:

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🚀 Free AI model rivals GPT-4 in language model evaluation

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⏩ YouTube Premium introduces AI-powered "Jump ahead" feature

💊 AI is now set to transform the drug discovery industry

🎤 AI helps bring back Randy Travis' voice in new song

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DrEureka can automate robot training using LLMs

In robotics, one of the biggest challenges is transferring skills learned in simulation to real-world environments. NVIDIA researchers have developed a groundbreaking algorithm called DrEureka that uses LLMs to automate the design of reward functions and domain randomization parameters—key components in the sim-to-real transfer process.

https://youtu.be/vCYsKCbPTTU?si=QnYyWkA4BojE4YFL

The algorithm works in three stages: first, it creates reward functions with built-in safety instructions; then, it runs simulations to determine the best range of physics parameters; finally, it generates domain randomization configurations based on the data gathered in the previous stages.

When tested on various robots, including quadrupeds and dexterous manipulators, DrEureka-trained policies outperformed those designed by human experts.



Why does it matter?

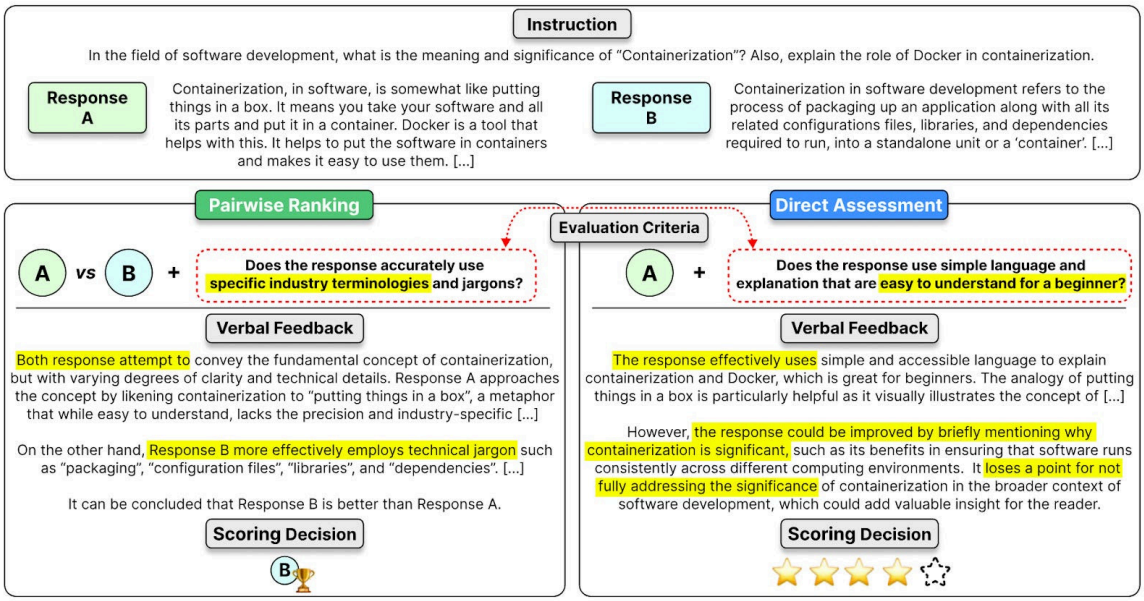
DrEureka makes robot training accessible and cost-effective for businesses and researchers alike. We may witness increased adoption of robotics in industries that have previously been hesitant to invest in the technology due to the complexity and cost of training robots for real-world applications.

Source

Free AI model rivals GPT-4 in language model evaluation

Prometheus 2, a free and open-source language model developed by KAIST AI, has shown impressive capabilities in evaluating other language models, approaching the performance of commercial models like GPT-4.

The model was trained on a new pairwise comparison dataset called the "Preference Collection," which includes over 1,000 evaluation criteria beyond basic characteristics. By combining two separate models - one for direct ratings and another for pairwise comparisons - the researchers achieved the best results.


Instruction
In the field of software development, what is the meaning and significance of "Containerization"? Also, explain the role of Docker in containerization.
Response A
Containerization, in software, is somewhat like putting things in a box. It means you take your software and all its parts and put it in a container. Docker is a tool that helps with this. It helps to put the software in containers and makes it easy to use them. [...]
Response B
Containerization in software development refers to the process of packaging up an application along with all its related configurations files, libraries, and dependencies required to run, into a standalone unit or a 'container'. [...]
Pairwise Ranking
A vs B + Does the response accurately use specific industry terminologies and jargons?
Verbal Feedback
Both response attempt to convey the fundamental concept of containerization, but with varying degrees of clarity and technical details. Response A approaches the concept by likening containerization to "putting things in a box", a metaphor that while easy to understand, lacks the precision and industry-specific [...]
On the other hand, Response B more effectively employs technical jargon such as "packaging", "configuration files", "libraries", and "dependencies". [...]
It can be concluded that Response B is better than Response A.
Scoring Decision
B
Evaluation Criteria
Direct Assessment
A + Does the response use simple language and explanation that are easy to understand for a beginner?
Verbal Feedback
The response effectively uses simple and accessible language to explain containerization and Docker, which is great for beginners. The analogy of putting things in a box is particularly helpful as it visually illustrates the concept of [...]
However, the response could be improved by briefly mentioning why containerization is significant, such as its benefits in ensuring that software runs consistently across different computing environments. It loses a point for not fully addressing the significance of containerization in the broader context of software development, which could add valuable insight for the reader.
Scoring Decision

In tests across eight datasets, Prometheus 2 showed the highest agreement with human judgments and commercial language models among all freely available rating models, significantly closing the gap with proprietary models.

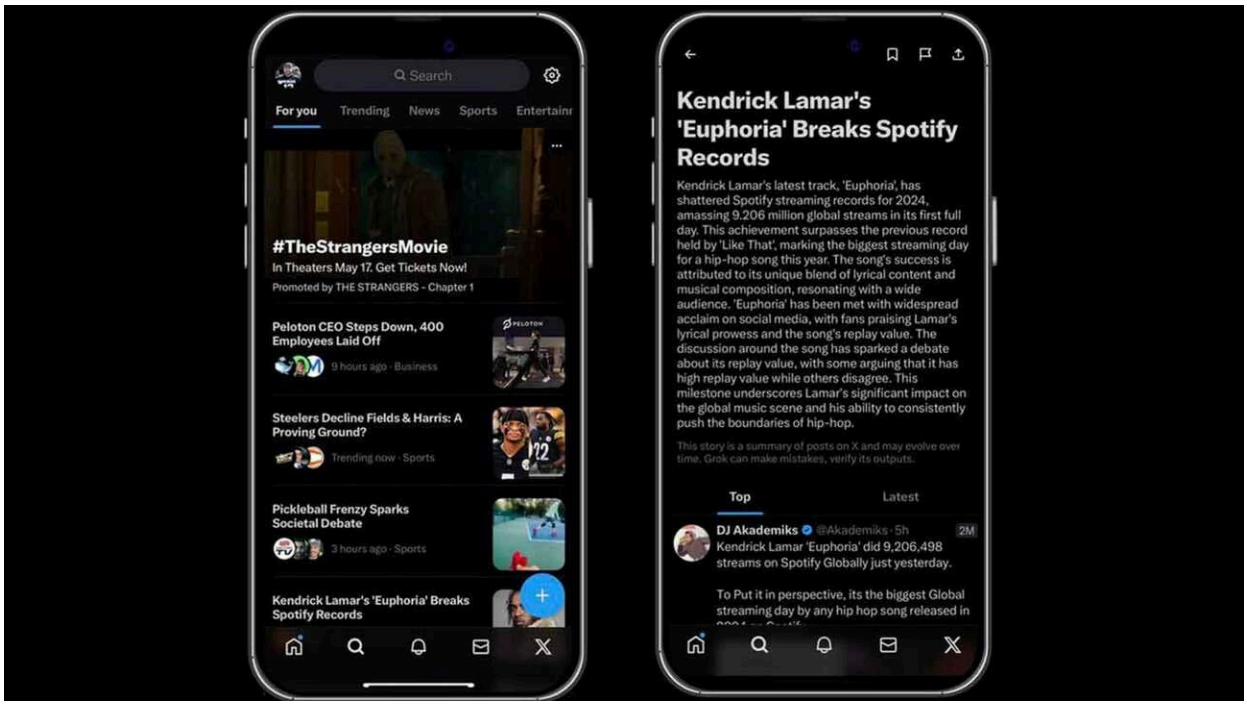
Why does this matter?

By enabling user-defined evaluation criteria, Prometheus 2 can be tailored to assess language models based on specific preferences and real-life scenarios, opening up new possibilities for developing specialized AI applications across various domains. It's also an opportunity to create niche models that are culturally sensitive and relevant.

Source

X introduces Stories feature powered by Grok AI

X (formerly Twitter) has launched a new feature, Stories, that provides AI-generated summaries of trending news on the platform. Powered by Elon Musk's chatbot Grok, Stories offers Premium subscribers brief overviews of the most popular posts and conversations happening on X.



With Stories, users can quickly catch up on the day's trending topics without having to scroll through countless posts. Grok generates these summaries based solely on the conversations happening on X about each news story rather than analyzing the original news articles themselves. While this approach is controversial, X believes it will pique users' curiosity and potentially drive them deeper into the source material.

Why does this matter?

X's Grok-powered Stories feature may reshape the way we consume news. As more platforms integrate AI news summarization tools, traditional media outlets may face challenges in maintaining reader engagement and revenue. However, the reliance on platform-specific conversations for generating summaries raises concerns about the potential spread of misinformation and the creation of echo chambers.

Source

What Else Is Happening in AI on May 06th 2024 ❗

🔒 Privacy complaint filed against OpenAI

The maker of ChatGPT is facing a privacy complaint in the European Union (EU) for its "hallucination problem." The complaint alleges violations of GDPR, including misinformation generation and lack of transparency on data sources. The report highlights concerns about accuracy, data access, and the inability of ChatGPT to correct incorrect information. (*Link*)

💰 JPMorgan launches an AI-powered tool for thematic investing

IndexGPT is a new range of thematic investment baskets created using OpenAI's GPT-4 model. The tool generates keywords associated with a theme, which are then used to identify relevant companies through natural language processing of news articles. IndexGPT aims to improve the selection of stocks for thematic indexes, going beyond obvious choices and potentially enhancing trend-following strategies. (*Link*)

⏩ YouTube Premium introduces AI-powered "Jump ahead" feature

The AI-powered feature allows users to skip past commonly skipped sections of a video and jump to the next best point. It is currently available for the YouTube Android app in the US with English videos and can be enabled through the experiments page. (*Link*)

💊 AI is now set to transform the drug discovery industry

Generative AI is now rapidly generating novel molecules and proteins that humans may not have considered. AI models, such as Google's AlphaFold, are accelerating the drug development process from years to months while increasing success rates. Experts predict that AI-designed drugs will become the norm in the near future, but they will still need to prove their efficacy in human trials. *(Link*)

🎤 AI helps bring back Randy Travis' voice in new song

Country singer Randy Travis has released a new song, "Where That Came From," his first since losing his voice to a stroke in 2013.



The vocals were created using AI software and a surrogate singer under the supervision of Travis and his producer. The result is a gentle tune that captures Travis' relaxed style, reinforcing the potential of AI voice cloning in the right hands. (*Link*)

AI Tutorial on May 06th 2024:

🧠 **How to use ChatGPT's new 'Memory' feature**

OpenAI has rolled out a new feature called "Memory" for ChatGPT plus users, enabling it to remember specific user details across chats.

Step-by-step:

1. Head over to ChatGPT. You need a Pro account to enable this feature.
2. Click on your account name (bottom-left), select Settings, Personalization, and enable Memory.
3. Teach ChatGPT to remember specific details by explicitly stating them in the chat, e.g., "Remember that I am vegetarian when you recommend a recipe."

4. Manage your memories by clicking the “Manage” button located in the Memory section to view, edit, or delete specific memories.

That’s it! You can now have more personalized conversations across all your conversations 🎉

New AI Job Opportunities on May 06th 2024

- 🔒 **Robust Intelligence** - Solution Architect
- 📊 **Anthropic** - Audit and Compliance
- 🤗 **Hugging Face** - Product Software Engineer, ML Platform
- 🧑‍💼 **Character AI** - Staff Data Engineer - Analytics

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