

AI News

In this issue, we delve into some groundbreaking developments in the realm of artificial intelligence (AI). Rabbit's new AI-powered device, the R1, is showcasing the convenience that AI offers by making apps more accessible. Meanwhile, Volkswagen is revolutionizing in-car functionality by integrating AI technology, while Boston Dynamics' Spot is redefining the interaction between robots and humans.

The key highlights of this issue, however, are the major breakthroughs in AI technology: Mamba and Mixtral 8x7B. Developed by Albert Gu and Tri Dao, Mamba advances sequence modelling using its pioneering selective state space models. Surpassing existing models, it is excellently adept at managing long sequences, a capability that vastly enhances its applications, particularly in genomics and natural language processing.

The other key highlight, Mixtral 8x7B, is a significant stride forward in AI efficiency and performance. It dominates in tasks associated with commonsense reasoning, code interpretation, and math. This is made possible by its innovative architecture and the fact that it uses a fraction of the active parameters compared to its competitors. The introduction of Mixtral could revolutionize the AI landscape, making it more accessible and cost-effective due to its high efficiency.

Moreover, OpenAI's subtle amendment of its usage policy reflects the rapidly increasing attention of AI in the public eye. The company's shift of stance on military usage of AI encourages a timely discussion around matters of ethical usage, bias, and factual inaccuracy.

The relentless pace of AI development is palpable in these advancements, marking out new territory for exploration and offering vast potential for various applications. These pioneering endeavours illustrate AI's potential not just for enhancing efficiency and productivity, but reshaping our lives in novel yet profound ways. We hope you enjoy reading and gaining insights into the exhilarating world of AI advancements.

The Rabbit R1 is an AI-powered gadget that can use your apps for you

2024-01-10

AI startup Rabbit introduces the R1, a \$199 device that uses a unique operating system to interact with and perform tasks across various apps like Spotify and Uber. The device, which can be trained to carry out specific actions, aims to provide a new level of convenience and integration in AI-powered devices, potentially challenging the current app store model.

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Volkswagen to add ChatGPT in vehicles

2024-01-10

Volkswagen is integrating ChatGPT into its vehicle voice assistant technology, allowing drivers to control various systems and ask general knowledge questions. The feature, which emphasizes data protection, will be standard in several models. This move is part of a wider trend in the automotive industry to incorporate AI, with companies like American Honda and General Motors using AI for administrative tasks, and Mercedes-Benz piloting ChatGPT in manufacturing.

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Mamba: Revolutionizing Sequence Modeling with Selective State Spaces

2024-01-11

Mamba, a novel architecture introduced by Albert Gu and Tri Dao, revolutionizes sequence modeling with its selective state space models. It outperforms existing models in handling long sequences efficiently, showing superior results in language, DNA, and audio modeling. Mamba's broad applications and potential to advance fields like genomics and natural language processing make it a significant contribution to deep learning and AI capabilities.

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New AI Breakthrough: Mixtral 8x7B Surpasses Leading Models in Performance and Efficiency

2024-01-11

Mixtral 8x7B, a groundbreaking AI model, outperforms leading competitors with its innovative architecture and efficiency. It excels in tasks like commonsense reasoning, math, and coding, using 5x fewer active parameters during inference.

Mixtral also shows remarkable long-range performance and reduced biases. Its instruct variant, fine-tuned to follow instructions, tops the MT-Bench leaderboard. This leap in AI efficiency and performance could revolutionize AI applications, making them more accessible and cost-effective.

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OpenAI Quietly Deletes Ban on Using ChatGPT for “Military and Warfare”

2024-01-13

OpenAI has subtly revised its usage policy, removing the explicit ban on using its technology, including ChatGPT, for military purposes. The change has sparked concerns about the potential misuse of AI in military operations, given the known issues with bias and inaccuracy in large language models. The policy revision comes amid growing global military interest in integrating machine learning to enhance operations, despite concerns about factual inaccuracies and security risks.

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How ChatGPT turns something creepy into something cleverly creepy

2024-01-14

Boston Dynamics has integrated ChatGPT into their robot dog, Spot, enabling it to interact with humans in a more sophisticated manner. The fusion of ChatGPT with image captioning, visual question-answering models, and advanced voice recognition software has resulted in a robot that can perform tasks and engage intuitively with people. This development is part of a broader effort to make robots less intimidating and more relatable, potentially expanding their roles in everyday life.

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