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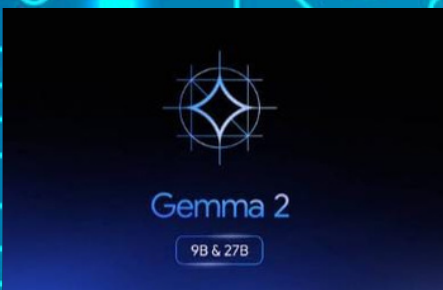
-----NEWSLETTER-----

# COMPUTER SCIENCE

## Latest Inventions In AI

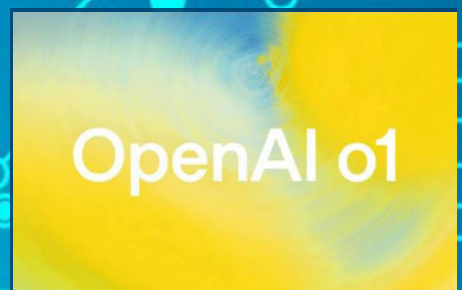


September 19, 2024 – Pudu Robotics, a global leader in service robotics, has unveiled its latest innovation, the PUDU D7, the company's first general embodied intelligent semi-humanoid robot. The PUDU D7 is powered by a battery exceeding 1 kWh, enabling it to operate continuously for over 8 hours and its bionic arms can lift 10 kilograms



Initial release of Gemma 2 in 9B and 27B sizes was on June 27, 2024. It is optimized to run at incredible speed across a range of hardware, from powerful gaming laptops and high-end desktops, to cloud-based setups

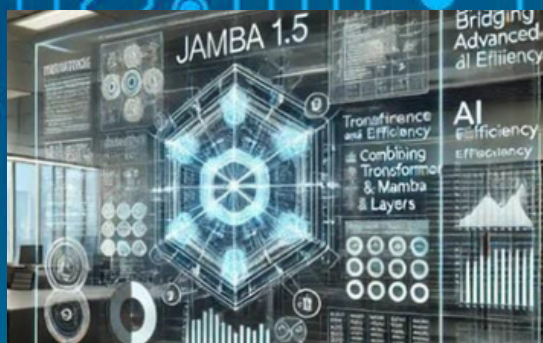
The Veo Cam 3 was launched in February 2024. The Veo Cam 3 is an AI-powered sports camera that can record matches without the need for a camera operator. It is water-resistant and can handle light rain.



The initial launch in September 2024 included two models: OpenAI o1-preview -- excels at tackling sophisticated problems. OpenAI o1-mini -- provides a smaller, more cost-efficient version of o1

The first preview of Gemini 1.5 Pro was announced in February 2024, providing an upgrade over the 1.0 models with better performance and longer context length. Gemini 1.5 Pro can process text, images, audio and video





Jamba 1.5 models released in September 2024, a unique hybrid architecture that combines the transformer model architecture with Structured State Space model (SSM) technology. This innovative approach allows Jamba 1.5 models to handle long context windows up to 256K tokens, while maintaining the high-performance characteristics of traditional transformer models.



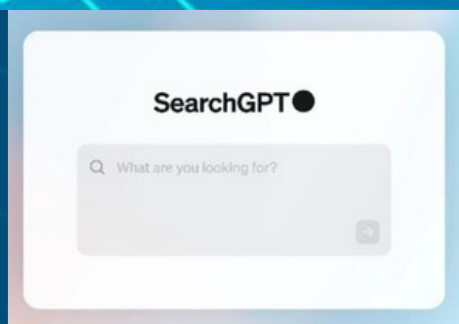
On June 20, 2024, Anthropic released Claude 3.5 Sonnet, which demonstrated significantly improved performance on benchmarks notably in areas such as coding, multistep workflows, chart interpretation, and text extraction from images.

Llama 3.2 was released on 25 September 2024, Llama 3.2 is Meta's in-house open-source model, which can help developers to create more upgraded AI models.



Flux AI is the latest and greatest in AI image generators, launched in August 2024. It's open-source, which means anyone can tinker with it, and it's already turning heads with how detailed and lifelike the images it creates are.

Search GPT, developed by OpenAI, is a prototype that was launched on 26 July 2024, combining conventional search engine features with generative AI capabilities. This search feature positions OpenAI as a direct competitor to various search engines like Google, Yahoo, and Bing.



Google first introduced Imagen 3 at its Google I/O event in May 2024. Imagen 3 is our highest quality text-to-image model. It generates an incredible level of detail, producing photorealistic, lifelike images, with far fewer distracting visual artifacts than our prior models.

References: [https://youtube.com/@airevolutionx?si=L4HQXYZ3Rs39L\\_n\\_](https://youtube.com/@airevolutionx?si=L4HQXYZ3Rs39L_n_),  
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