

## **GENIE AI MODEL**

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## **Context:**

Recently, Google DeepMind has introduced Genie, a new AI model

## **Background:**

Genie is currently not available to the public and only exists as a research model for now.

## **About GENIE AI MODEL:**

- 1. The Foundation: Genie is a foundational world model trained on videos sourced from the Internet.
- 2. Generative Capabilities: It can generate an endless variety of playable (action-controllable) worlds from synthetic images, photographs, and even sketches.
- 3. Training: It is the first generative interactive environment that has been trained in an unsupervised manner from unlabelled internet videos.
- 4. Functionality: These technical specifications let Genie act in generated environments on a frame-by-frame basis even in the absence of training, labels, or any other domain-specific requirements.
- 5. Diversity: Genie can be prompted to generate a diverse set of interactive and controllable environments although it is trained on video-only data.
- 6. Interactivity: It makes playable environments from a single image prompt. It can be prompted with images it has never seen. This includes real-world photographs, and sketches, allowing people to interact with their imagined virtual worlds.
- 7. This revolutionary generative AI allows anyone, including children, to immerse themselves in generated worlds resembling human-designed environments.
- 8. The standout aspect of Genie is its ability to learn and reproduce controls for in-game characters exclusively from internet videos.
- 9. This is noteworthy because internet videos do not have labels about the action that is performed in the video, or even which part of the image should be controlled.