



how is google ai different from a robot with large language models

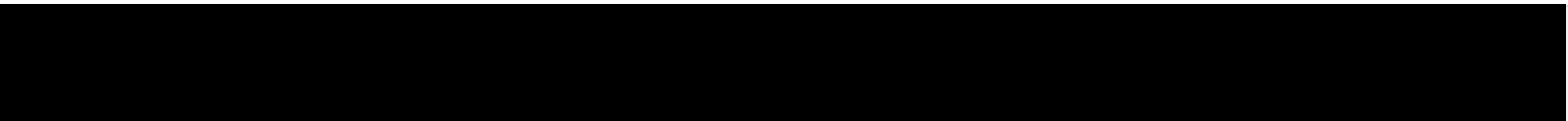
The primary difference between a platform like **Google AI** and a **robot integrated with Large Language Models (LLMs)** lies in their embodiment: **Google AI is primarily a digital intelligence system, while a robot is a physical agent that uses AI as its "brain" to interact with the real world.**

Key Differences

- **Operating Environment:** AI on Google Search operates in a **digital space**. It processes web data, text, and images to provide information or creative content. Robots operate in the **physical world**. They navigate three-dimensional environments and manipulate objects.
- **Action Output:** Digital AI generates text, code, or images. A robot with an LLM translates these language-based "decisions" into **physical motor commands**.
- **Data and Training:** LLMs are trained on large datasets of text, images, and video from the internet. Robots require **embodied data**. This includes sensor readings and physical interaction logs to understand concepts like gravity and friction.
- **Core Technology:**
 - AI on Google Search primarily utilizes **Transformer architectures** and LLMs for reasoning and information retrieval.
 - **Robots with LLMs:** Often use **Vision-Language-Action (VLA) models** which integrate language reasoning with visual perception and physical control.

How They Work Together

Google develops both. For example, **Google DeepMind's AutoRT** uses large models to orchestrate fleets of robots. The LLM suggests creative tasks while the physical hardware carries them out. In this scenario, the AI provides the **reasoning**. The robot provides the **execution**.



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