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Conversation d1214e94

Date: May 28, 2026 at 10:11 PM **Turns:** 2 **Source:** [Gemini Chat](#)

Turn 1

? User

? Assistant

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The diagram consists of 15 horizontal bars, each made of small squares. The bars are arranged in a descending staircase pattern. The top bar is the longest, and each subsequent bar is shorter and shifted to the right. The bars are colored in a repeating sequence of light blue, light green, and light yellow.

????????????Retrieval-Augmented Generation, RAG?

The diagram illustrates the RAG architecture components and their data flow. It consists of five main components, each represented by a colored circle and a corresponding data flow diagram:

- LLM (Large Language Model)**: Represented by a blue circle. The data flow shows a long sequence of data (represented by a long bar) entering the LLM, which then outputs a sequence of data (represented by a shorter bar).
- Fine-tuning**: Represented by a green circle. The data flow shows a sequence of data entering the Fine-tuning component, which then outputs a sequence of data.
- Vector Database**: Represented by a red circle. The data flow shows a sequence of data entering the Vector Database, which then outputs a sequence of data.
- Retriever**: Represented by a yellow circle. The data flow shows a sequence of data entering the Retriever, which then outputs a sequence of data.
- Prompt Engineering**: Represented by a purple circle. The data flow shows a sequence of data entering the Prompt Engineering component, which then outputs a sequence of data.

The diagram also shows the interaction between these components. The LLM component is connected to the Fine-tuning component. The Fine-tuning component is connected to the Vector Database component. The Vector Database component is connected to the Retriever component. The Retriever component is connected to the Prompt Engineering component. The Prompt Engineering component is connected to the LLM component.

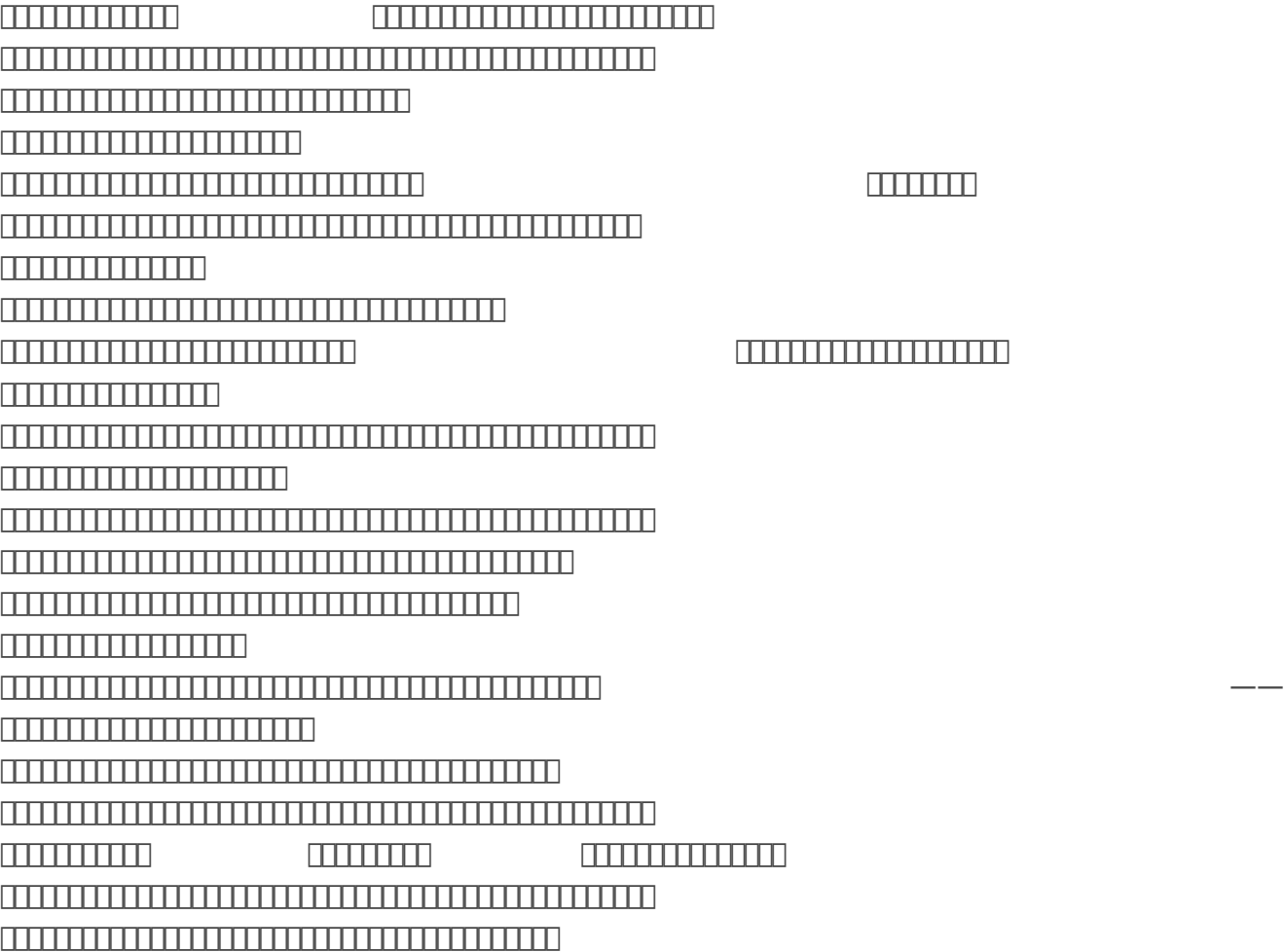
Turn 2

? User

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? Assistant

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?????????Berry Phase?/ ?????Geometric Phase?

Geometric Phase

Berry Phase

Michael Berry 1984

- Quantum State/Wavefunction
- Parameter Space
- Adiabatic Theorem
- Closed Loop
- Dynamic Phase

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