Summer Training TR-103

Prompt Engineering

Day-6 Report

The sixth day of the training program centred on deepening participants' understanding of Google AI Studio, with a focus on practical implementation.

Why use Google AI Studio? (Advantages):

- More options
- Because tokens are freely available
- Comparison Mode
- Vertex: Paid version of Google AI Studio and gives better results than Google AI Studio
- OpenAI Premium Version and Vertex: Used by Developers
- Links with Google Drive:
    - Tip: Use different accounts for Google AI Studio because Drive space limited
- Grounding with Google Search
- Streaming
- Fine Tuning Option

Comparison Mode:

- Participants explored the Comparison Mode in Google AI Studio, which allows side-by-side evaluation of different AI model outputs.

- This feature was demonstrated to help users assess model performance, response quality, and suitability for specific tasks, enabling informed decisions when selecting models for projects.

Build:

- The Build functionality was introduced, guiding participants through creating custom AI workflows.
- Attendees practiced constructing simple AI pipelines, combining prompts and model configurations to generate tailored outputs for specific use cases.

Stream:

- The Stream feature was highlighted, showcasing real-time output generation for interactive applications.
- Participants experimented with streaming responses to understand how Google AI Studio supports dynamic, low-latency interactions.

Generate Media:

- The session covered the Generate Media tool, which enables the creation of images, audio, and other media types using AI models.
- Practical exercises included generating sample media outputs, helping participants understand the creative potential of Google AI Studio for multimedia applications.

Fine-Tuning:

- An introduction to Fine-Tuning was provided, explaining how to customize pre-trained models for specific tasks.

- Participants engaged in hands-on activities to fine-tune models with sample datasets, gaining insights into improving model accuracy and relevance for targeted applications.