Summer Training TR-103

Prompt Engineering

Day-11 Report

The eleventh day of the training introduced Notebook LM, a personal AI tool by Google DeepMind, designed for working with user-uploaded content.

Introduction to Notebook LM:

Notebook LM, formerly known as Project Tailwind, is an advanced AI-powered tool developed by Google DeepMind. It is designed to function as a Personal RAG (Retrieval-Augmented Generation) system, enabling users to interact directly with their own uploaded documents rather than relying on external or internet-based data.

- **Key Features and Concepts:**
    1. **Contextual Responses:** The AI responds based solely on the user's files, ensuring privacy and tailored outputs.
    2. **Smart Summarization:** Given a set of documents (e.g., 12 research papers), Notebook LM can efficiently summarize and generate key insights.
    3. **Interactive Querying:** Users can ask specific questions about their uploaded content and receive accurate responses.

Studio Column

The Studio column in Notebook LM provides enhanced tools for interacting with notebook content. It consists of two primary components: Audio Overview and Notes.

- Audio Overview: Generates a spoken summary of the notebook. Users can play, pause, and navigate the audio. It also includes an Interactive mode (BETA) for dynamic listening
- Notes: The Notes section allows users to capture and organize key insights from the notebook. It includes the following features:
    1. Add note: Allows users to manually create and save custom notes.
    2. Study guide: Generates a structured guide based on the uploaded documents.
    3. FAQ: Produces a list of frequently asked questions and corresponding answers.
    4. Timeline: Creates a chronological sequence of events or content based on the material.
    5. Briefing doc: Summarizes the key points into a concise and readable document.

Application and Practical Use:

Participants explored the practical applications of creating different notebooks, each organized around a specific theme or project. This structure supports better document management and focused knowledge extraction. Moreover, by interacting with and prompting Notebook LM using user-specific content, participants learned how this process inherently contributes to the creation of a Supervised Learning Dataset. This allows for future model training or fine-tuning based on curated human-AI interactions.

Upload Sources:

Notebook LM offers multiple options for uploading content, enabling users to build notebooks from a variety of input types. These flexible upload methods support diverse workflows and ensure compatibility with commonly used formats.

Users can upload multiple files from different sources into a single notebook. The available upload options include:

- Google Drive: Allows direct access to files stored in the user's Google Drive.
    - Google Docs – Imports text documents.
    - Google Slides – Imports presentation files.
- Link: Enables content addition via URLs.
    - Website – Adds material from a web page.
    - YouTube – Extracts content from a YouTube video link.
- Paste Text: Permits manual entry of content directly into the notebook.
    - Copied Text – Supports pasting raw or copied text into the interface.