**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. Participants explored its key

functionalities, including document-based summarization, question-answering, and structured

note generation. The session also covered the Studio column, featuring Audio Overview and a

range of Notes tools such as FAQ, Timeline, and Briefing doc. Practical exercises demonstrated

how these features contribute to creating personalized knowledge workflows and supervised

learning datasets.

**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:

o Contextual Responses: The AI responds based solely on the user's files, ensuring privacy

and tailored outputs.

o Smart Summarization: Given a set of documents (e.g., 12 research papers), Notebook

LM can efficiently summarize and generate key insights.

o Interactive Querying: Users can ask specific questions about their uploaded content and

receive accurate responses.

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**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.

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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.
  - o Google Docs Imports text documents.
  - o Google Slides Imports presentation files.
- Link: Enables content addition via URLs.
  - o 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.
  - o Copied Text Supports pasting raw or copied text into the interface.

## Conclusion

The eleventh day of the training introduced a powerful paradigm shift in AI interaction through Notebook LM. Participants gained a deep understanding of how Personal RAG frameworks work, emphasizing AI's potential to retrieve and analyze information solely from user-provided content. The session highlighted Notebook LM's potential in summarization, question-answering, and dataset generation, all while ensuring privacy and personalization. As AI tools become more integrated into individual workflows, such technologies will redefine productivity, learning, and research methodologies.

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