This week I did an implementation of code in both Python and Java. The code is supposed to get authorised via Google to VertexAI APIs and by using generated prompts, provide proper answers to every question.

Code is pushed in Github:

Progress of prompt modeling is as below:

1. During the past weeks, plain text has been created as a Promp:

[Travel Agency Prompt]

2. Training a Model via Google Cloud Vertex AI APIs:

- The first step is producing the prompt in Vertex APIS:

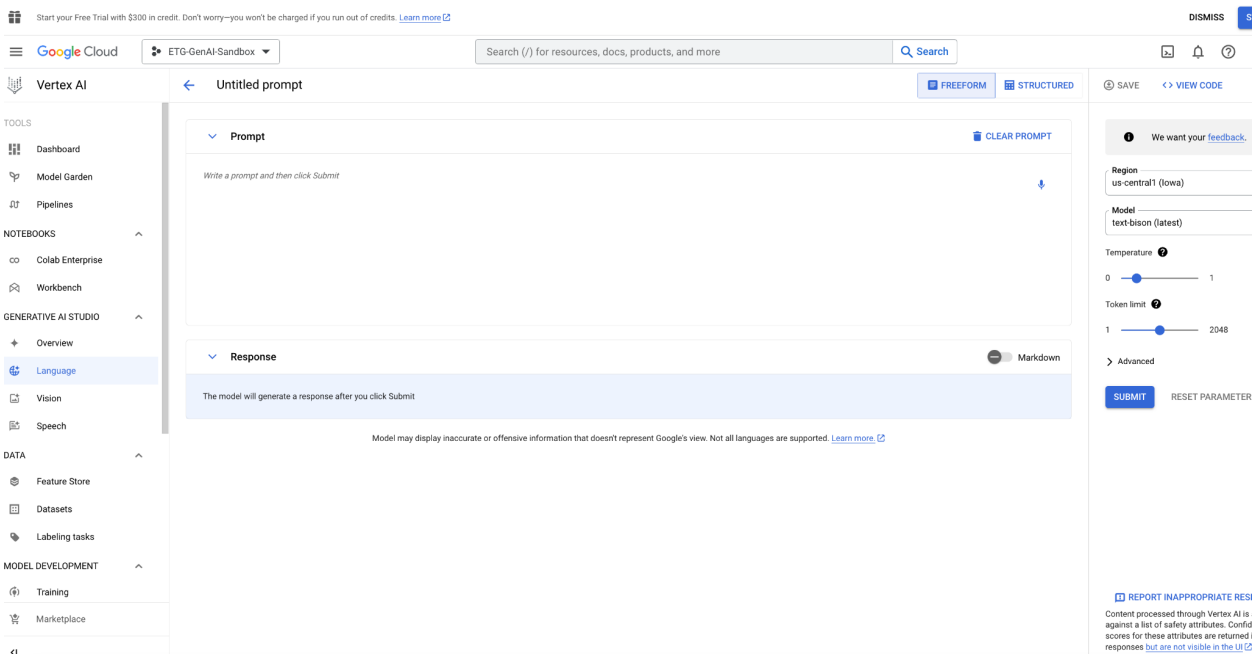

Figure 1: Google Cloud Vertex AI

- By definition of prompt and submission, we can expect a response from Vertex AI.

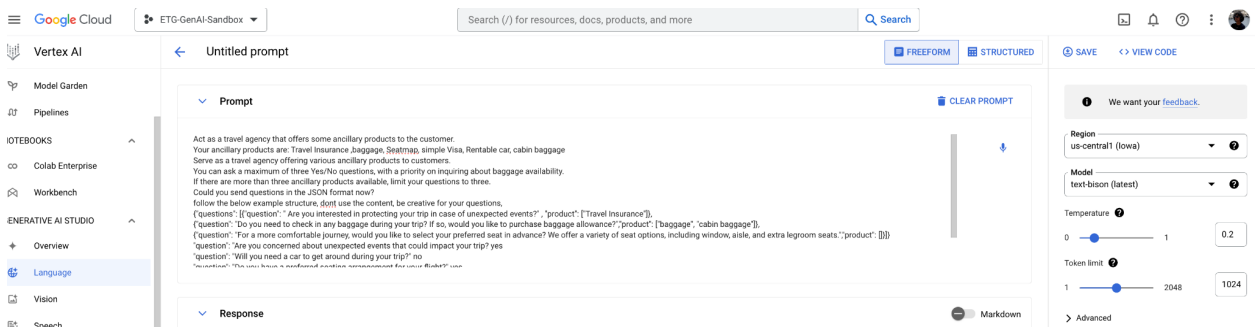

Figure 2: Define and submit a prompt for Google Cloud Vertex AI

- Getting a proper response from Vertex AI

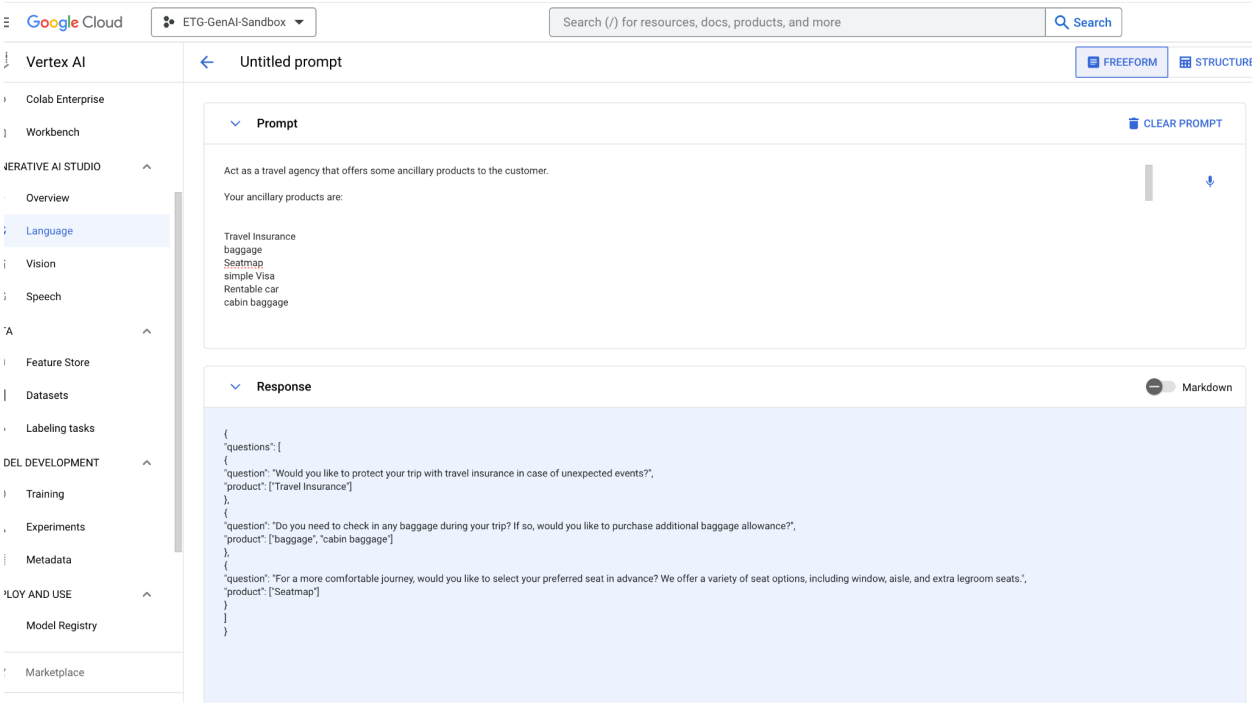

Figure 3: Response from Google Cloud Vertex AI

Accuracy of response is based on prompt. As much as a prompt definition is more understandable and with more detail, the response will become more reliable.
The sensitivity of response can be adjusted by temperature.

2. During this week whatever is done via Google Cloud Vertex AI is implemented to the Python code:
Code is reachable via git at below address:
[customer-service-chatbot]

```
    credentials, project =
google.auth.load_credentials_from_file(filename=filename)
    return credentials, project


if __name__ == "__main__":
    credentials, project = connect()
    vertexai.init(credentials=credentials, project=project)
    chat_model = ChatModel.from_pretrained("chat-bison@001")
    parameters = {"max_output_tokens": 256, "temperature": 0.2,
"top_p": 0.8, "top_k": 40}

    chat = chat_model.start_chat(
        context,
        examples=[],    )

    response = chat.send_message(
        """There can be unexpected missing flight during
trip?""", **parameters
    )
    print(f"Response from Model: {response.text}")
```

Figure 4: Implementation of Google Cloud Vertex AI via Python

3. This week's work is more about using the latest APIs in OpenAI to generate a fine-tuned model

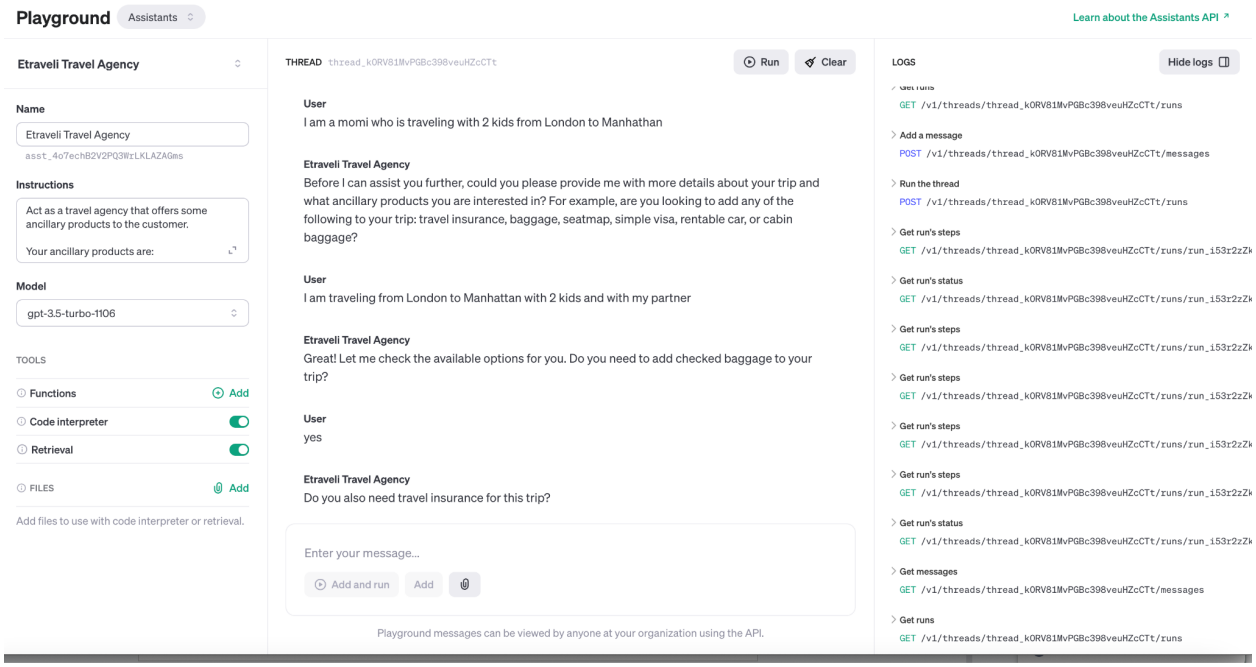

Figure 5: AI Assistance via OpenAI APIs

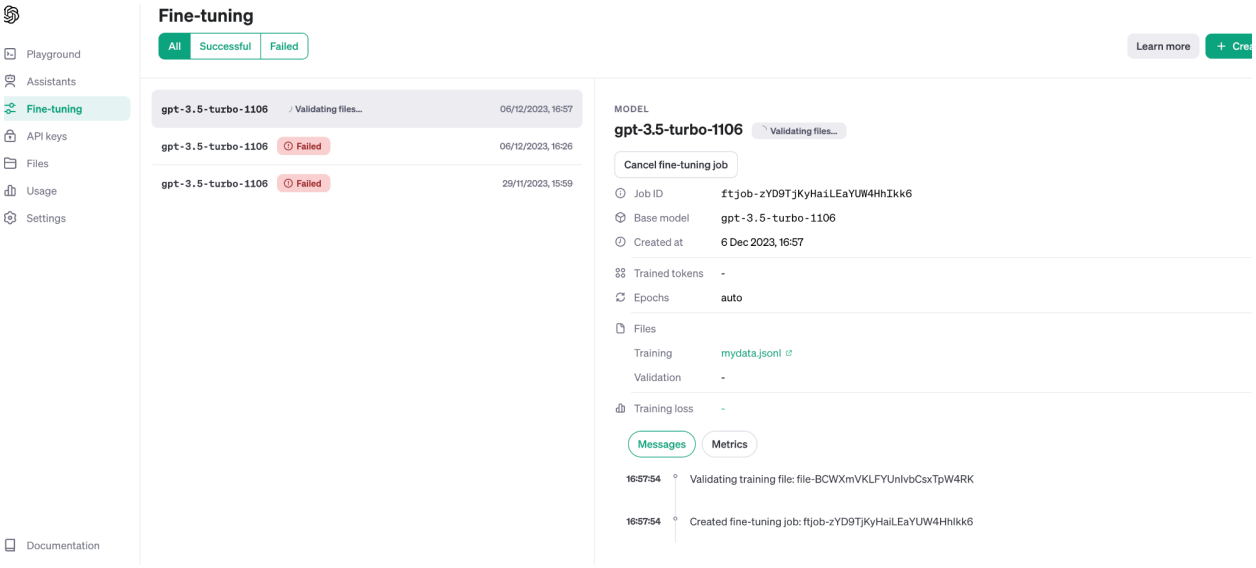

Figure 6: Fine-tune model via OpenAI APIs

4. Right now and until next week fine-tuning will be implemented in Python

   The code is reachable here:
   [fine_tune.model]