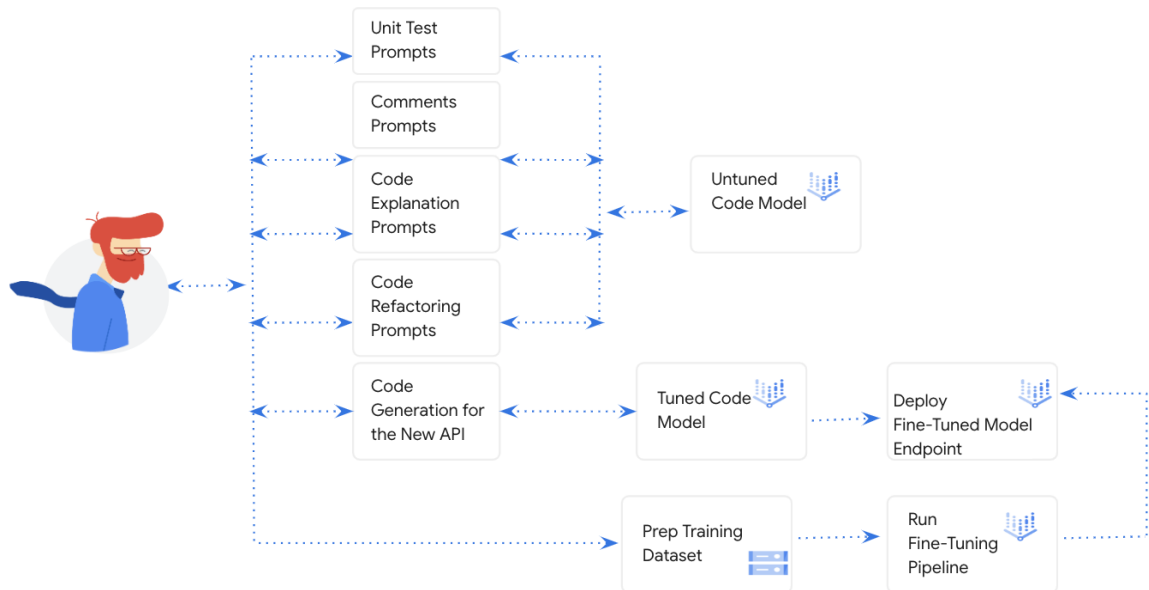


Demo Guide

Lei Pan 10/30

Example - Fine tune the model to use a new API



UI Demo

Step 1: Enable Vertex AI in your GCP project

1. Go to the Vertex AI Console: <https://console.cloud.google.com/vertex-ai/>:
<https://console.cloud.google.com/vertex-ai/>.
2. Click the Enable Vertex AI button.
3. Follow the on-screen instructions to enable Vertex AI.

Step 2: Navigate to the Language section under Generative AI Studio and click Code Prompt

1. In the Vertex AI Console, click the Generative AI Studio tab.
2. In the Language section, click the Code Prompt button.

Step 3: Test untuned model with Vertex AI search tasks

- Prompt 1 : Generate a function to send search queries to the Vertex AI Search API and retrieve the search results

Step 4: Fine-tune the model in the UI

1. In the Vertex AI Console, click the Generative AI Studio tab.
2. In the Language section, click the Tuning tab.
3. Click the + Create tuned model button.
4. Fill out the following information:
 - Model name: Enter a name for your tuned model.
 - Base model: Select the untuned model that you want to fine-tune.
 - Fine-tuning dataset: Select the dataset that you want to use to fine-tune the model.
 - Fill other required parameters.
5. Click the Create button.

Step 5: Test the tuned model with Vertex AI search tasks

- Prompt 1- Generate a function to send search queries to the Vertex AI Search API and retrieve the search results.
- Prompt 2- Create a function to send search requests to Vertex AI Search API, convert the protobuf search response to a dictionary, and return the dictionary result.

Step 6 : Since the untuned model works better for the following tasks, you can switch it back to the default model and test the following tasks. Fill in the code generated from the previous step in the [].

- Generate unit test to cover the block of code []
- Explain the block of code [] line by line Refactor the block of code [] by using descriptive and meaningful names and comments
- Generate line-by-line comments for the block of code []

API Demo

Step 1: Enable Vertex AI in your GCP project

1. Go to the Vertex AI Console: <https://console.cloud.google.com/vertex-ai/>.
2. Click the Enable Vertex AI button.
3. Follow the on-screen instructions to enable Vertex AI.

Step 2: Install libraries

Step 3 (optional): you can have the fine tuned model page (GCP console) tab ready and show the fine tuned pipeline when needed

Step 4: Run code

- All the steps are in the notebook
- Refer to the videos for more details