

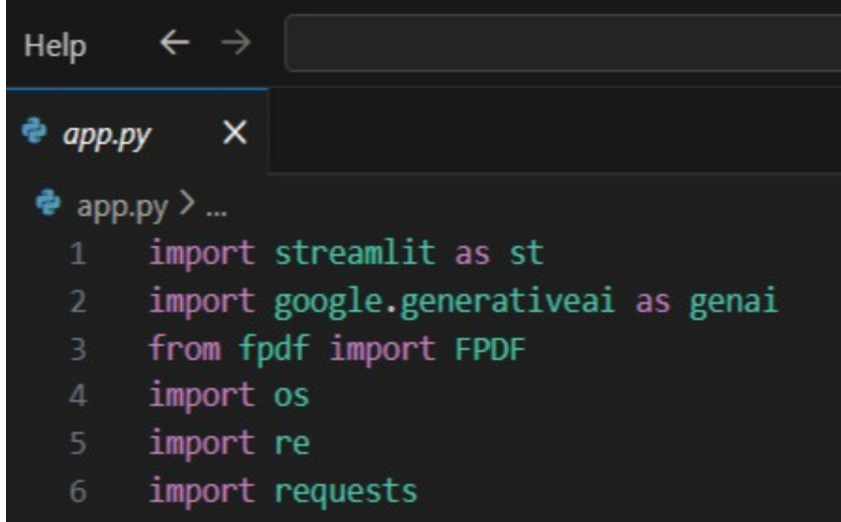
Initializing the Model Phase

Date	5 February 2026
Team ID	LTVIP2026TMIDS26163
Project Name	Explore with AI: Custom Itineraries for Your Next Journey
Maximum Marks	3 Marks

Initialize the pre-trained model:

Import necessary files:

- ☐ **Streamlit** is imported to build the web-based user interface where users can enter travel details and view generated itineraries.
- ☐ **Google Generative AI (genai)** is imported to connect the application with the Gemini AI model for generating personalized travel plans.
- ☐ **FPDF** is used to create downloadable PDF versions of the generated travel itineraries.
- ☐ **OS module** helps in handling file paths and managing temporary files within the system
- ☐ **re (Regular Expressions)** is used for cleaning and formatting the AI-generated text before displaying or saving it. And **Requests library** is used to fetch travel-related images from external APIs for enhancing the PDF cover page.

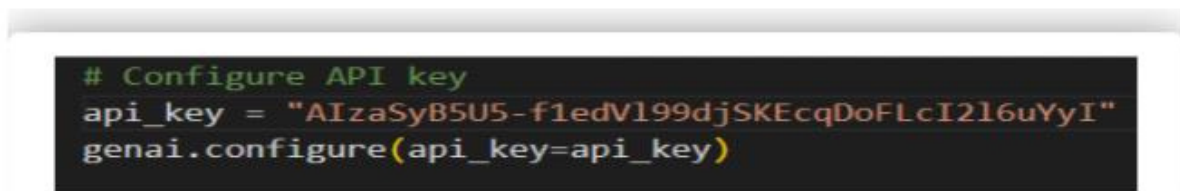
A screenshot of a code editor interface. At the top, there is a 'Help' menu and navigation arrows. Below that, a tab labeled 'app.py' is open. The main area shows the following Python code:

```
1 import streamlit as st
2 import google.generativeai as genai
3 from fpdf import FPDF
4 import os
5 import re
6 import requests
```

Screenshot:

Configuration of the Gemini Pro API:

The API key provided is for reference only(in general the API key should not be exposed.it is confidential)

A screenshot of a code editor showing the configuration of the Gemini Pro API key. The code is as follows:

```
# Configure API key
api_key = "AIzaSyB5U5-f1edVl99djSKEcqDoFLcI2l6uYyI"
genai.configure(api_key=api_key)
```

Configuring the API key: The configure function is used to set up or configure the Google API with an API key. The provided API key, in this case, is "AIzaSyB5U5-f1edVl99djSKEcqDoFLcIXXXXXX".