Initializing theModel 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:

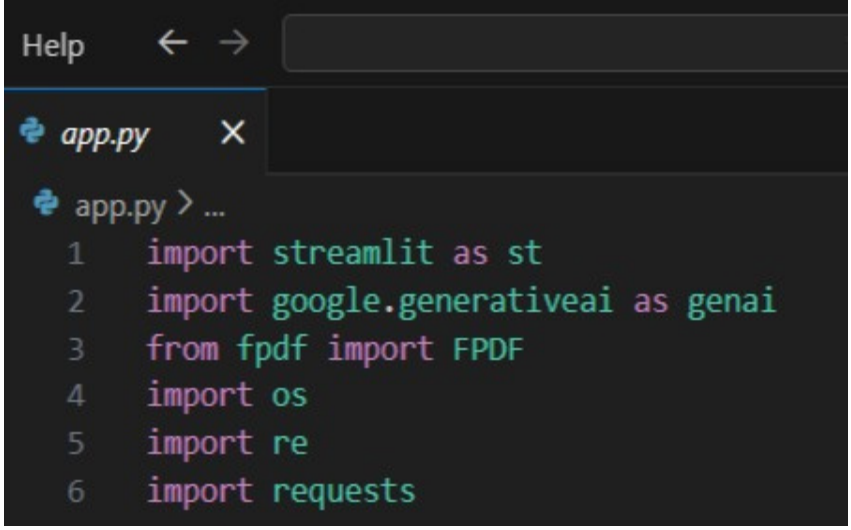
 Streamlit is imported to build the web-based user interface where users can enter travel details and view generated itineraries.

 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 orsaving it. And ***Requests library*** is used to fetch travel-related images from external APIs for enhancing thePDF cover page.



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)

```
# 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".