

# Project 24: Travel Destination Recommender

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## Description:

This travel-savvy AI recommends destinations based on your interests, season, budget, or travel style. Whether you're into adventure, culture, beaches, or food—this bot curates personalized trip ideas with a flair of wanderlust.

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## travel\_destination\_recommender.py

```
import openai
import os
import gradio as gr

# Load OpenAI API key
openai.api_key = os.getenv("OPENAI_API_KEY")

# Function to recommend travel destinations
def recommend_destinations(user_input):
    # Set the system's behavior as a world travel advisor
    messages = [
        {
            "role": "system",
            "content": (
                "You are an enthusiastic travel planner. Recommend travel dest\n"
                "budget, season, or vibe. For each suggestion, include the des\n"
                "and 1-2 key activities to do there. Keep your tone adventurou\n"
            )
        },
        {
            "role": "user",
            "content": f"I'm planning a trip and here's what I want: {user_inp\n"
        }
    ]

    try:
        # Call the OpenAI API to generate a personalized travel list
        response = openai.ChatCompletion.create(
            model="gpt-3.5-turbo", # Upgrade to gpt-4 for richer results
```

```

        messages=messages
    )

    # Return the generated travel ideas
    return response['choices'][0]['message']['content'].strip()

except Exception as e:
    # Return any API or processing errors
    return f"Error: {str(e)}"

# Gradio interface for destination recommendation
iface = gr.Interface(
    fn=recommend_destinations,                # Function to generate
    inputs=gr.Textbox(lines=2, placeholder="e.g. I'm on a budget, I love mount", # Input field for user query
    outputs="text",                           # Output field for results
    title="🌍 Travel Destination Recommender", # App title
    description=(
        "Tell me what kind of trip you're looking for and I'll suggest destinations for you."
        "Try: 'Warm beach destinations in January', 'Affordable cities for solo travel'"
    )
)

# Launch the app
iface.launch()
```