

Project 100: Multilingual Prompt Tester

Description:

This app lets you input a prompt and see how it performs across different languages. It's great for testing multilingual model behavior, translation consistency, and global prompt effectiveness.

multilingual_prompt_tester.py

```
import os
import openai
import gradio as gr

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

# Supported languages
language_map = {
    "English": "en",
    "Spanish": "es",
    "French": "fr",
    "German": "de",
    "Hindi": "hi",
    "Chinese (Simplified)": "zh",
    "Arabic": "ar",
    "Japanese": "ja"
}

# Function to translate and respond
def multilingual_prompt(prompt, language):
    try:
        # Prompt the model to respond in the selected language
        messages = [
            {
                "role": "system",
                "content": f"You are a helpful assistant. Respond only in {language}"
            },
            {
```

```

        "role": "user",
        "content": prompt
    }
]

# Call OpenAI
response = openai.ChatCompletion.create(
    model="gpt-3.5-turbo",
    messages=messages
)

return response["choices"][0]["message"]["content"].strip()

except Exception as e:
    return f"Error: {str(e)}"

# Gradio UI
iface = gr.Interface(
    fn=multilingual_prompt,
    inputs=[
        gr.Textbox(label="Enter Prompt in English"),
        gr.Dropdown(list(language_map.keys()), label="Choose Output Language")
    ],
    outputs="text",
    title="🌐 Multilingual Prompt Tester",
    description="Enter a prompt and see how GPT responds in different language"
)

# Launch the tester
iface.launch()

```