

Project 59: AI Language Tutor (e.g. Spanish)

Description:

This AI-powered tutor helps you learn any language by teaching vocabulary, grammar rules, and useful phrases. It can simulate conversations, translate your answers, and explain mistakes—all in a friendly, personalized way.

language_tutor.py

```
import openai
import os
import gradio as gr

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

# Function for language tutoring
def language_tutor(input_text, target_language, practice_type):
    # System prompt: make the AI act as a patient language teacher
    messages = [
        {
            "role": "system",
            "content": (
                f"You are a helpful and friendly language tutor for {target_la"
                f"you will either teach vocabulary, correct grammar, explain a"
                f"with the user. Use beginner-friendly language and always giv
            )
        },
        {
            "role": "user",
            "content": f"Practice type: {practice_type}\nInput: {input_text}"
        }
    ]

    try:
        # Request from 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 interface for the language tutor
iface = gr.Interface(
    fn=language_tutor,
    inputs=[
        gr.Textbox(label="Write something to translate, learn, or ask about"),
        gr.Textbox(label="Target Language (e.g. Spanish, French, Japanese)"),
        gr.Radio(
            ["vocabulary help", "grammar correction", "sentence explanation",
            label="Practice Type"
        )
    ],
    outputs="text",
    title="🧠 AI Language Tutor",
    description="Learn a new language with help from your AI tutor. Practice v
)

# Launch the tutor
iface.launch()

```