

# Project 91: Few-Shot Prompt Example App

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## Description:

This tool shows how to guide LLMs by giving a few well-crafted examples. You define an input-output pattern, and then test it with a new input—watch how the model generalizes based on your few-shot examples.

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### `few_shot_prompt_app.py`

```
import os
import openai
import gradio as gr

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

# Function to apply few-shot prompting
def few_shot_prompt(examples, new_input):
    try:
        # Prepare the few-shot prompt format
        prompt = "You are an intelligent assistant. Learn from these examples:"
        prompt += examples.strip() + "\n\n"
        prompt += f"Now respond to the new input:\nInput: {new_input}\nOutput:"

        # Send to OpenAI
        response = openai.ChatCompletion.create(
            model="gpt-3.5-turbo", # or gpt-4
            messages=[{"role": "user", "content": prompt}]
        )

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

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

# Gradio Interface
iface = gr.Interface(
    fn=few_shot_prompt,
```

```
inputs=[
    gr.Textbox(lines=10, label="Few-Shot Examples (e.g. Input: X\nOutput: Y)",
    gr.Textbox(label="New Input")
],
outputs="text",
title="🎯 Few-Shot Prompting Demo",
description="Give 2-3 examples of input-output pairs, then add a new input"
)

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