Project 16: Legal Contract Summarizer

Description:

This tool reads long, complex legal contracts and breaks them down into simplified summaries. It focuses on highlighting obligations, rights, terms, and risks—perfect for non-lawyers who want to understand what they're signing without reading 20 pages of legalese.

legal_contract_summarizer.py

```python
import openai
import os
import gradio as gr

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

# Function that summarizes legal text
def summarize_contract(legal_text):
    # System prompt sets the assistant's tone and responsibility
    messages = [
        {
            "role": "system",
            "content": (
                "You are a professional legal assistant. Read and summarize le
                "Highlight key clauses like payment terms, duration, obligatic
                "Use simple and neutral language, suitable for non-lawyers. Dc
            )
        },
        {
            "role": "user",
            "content": f"Please summarize this contract:\n\n{legal_text}"
        }
    ]

    try:
        # Call OpenAI Chat API to get summary
        response = openai.ChatCompletion.create(
            model="gpt-3.5-turbo",  # Can upgrade to GPT-4 for deeper understa
```

```python
        messages=messages
    )

    # Return summarized content
    return response['choices'][0]['message']['content'].strip()

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


# Gradio UI for legal contract input
iface = gr.Interface(
    fn=summarize_contract,                       # Core function to summarize
    inputs=gr.Textbox(lines=20, placeholder="Paste your contract text here..."
    outputs="text",                              # Output simplified summary
    title="📝 Legal Contract Summarizer",        # App title
    description=(
        "Paste a legal contract, terms of service, or agreement and receive a
        "Perfect for understanding obligations and clauses without the legal j
    )
)

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