Project 31: Email Rewriter

Description:

This tool rewrites any email into a more professional, polite, concise, or friendly tone—depending on your need. Perfect for job applications, cold outreach, internal communication, or simply leveling up your email game.

email_rewriter.py

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

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

# Function to rewrite emails with a chosen tone
def rewrite_email(original_email, tone):
    # Setup system instruction for rewriting style
    messages = [
        {
            "role": "system",
            "content": (
                f"You are a professional email assistant. Rewrite the followir
                "Preserve the original intent and content but improve clarity
            )
        },
        {
            "role": "user",
            "content": original_email
        }
    ]

    try:
        # Send the request to OpenAI's API
        response = openai.ChatCompletion.create(
            model="gpt-3.5-turbo",
            messages=messages
        )

        # Return the rewritten email
        return response["choices"][0]["message"]["content"].strip()

    except Exception as e:
        # Display any error
        return f"Error: {str(e)}"

# Gradio interface with input for email and tone
iface = gr.Interface(
    fn=rewrite_email,                                       # Function to rewr
    inputs=[
        gr.Textbox(lines=8, label="Your Original Email"),   # Original email i
        gr.Radio(choices=["professional", "friendly", "concise", "polite"], la
    ],
    outputs="text",                                         # Rewritten email
    title="📧 Email Rewriter",
    description="Paste your email and choose a tone to get a polished version.
)

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