## **Project 71: Cover Letter Generator**

## **Description:**

This smart assistant writes personalized, professional, and compelling cover letters tailored to the job, company, and your experience. Just input a job title, description, and your background—it handles the rest.

## cover\_letter\_generator.py

```
import openai
import os
import gradio as gr
# Load the OpenAI API Key securely
openai.api_key = os.getenv("OPENAI_API_KEY")
# Function to generate a custom cover letter
def generate_cover_letter(job_title, job_description, user_background):
    # Prompt the AI to act like a career writing coach
    messages = [
            "role": "system",
            "content": (
                "You are a professional career assistant helping write persona
                "Use the job title and description to align the candidate's ba
                "The letter should have an intro, skills paragraph, alignment
        },
            "role": "user",
            "content": (
                f"Job Title: {job_title}\n"
                f"Job Description: {job_description}\n"
                f"My Background: {user_background}"
        }
    1
```

```
try:
        # Generate the letter using 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=generate_cover_letter,
    inputs=[
        gr.Textbox(label="Job Title (e.g. Software Engineer, Marketing Manager
        gr.Textbox(label="Paste Job Description"),
        gr.Textbox(label="Your Background (skills, experience, achievements)")
    ],
    outputs="text",
    title=" Cover Letter Generator",
    description="Provide the job info and your background-I'll generate a comp
)
# Launch the cover letter writer
iface.launch()
```