Resume & Cover Letter Optimizer - Project Summary

What This Tool Does

This tool takes a plain-text resume and a job description as inputs, and:

1. Tailors your existing resume bullet points to fit the job description.

2. Generates a personalized, confident, and non-generic cover letter based on your actual resume and prompt.

3. Allows you to download the generated cover letter as a Word (.docx) file.

Technologies Used

- Python

- Streamlit (for the web interface)

- OpenAI API (for GPT-3.5 turbo model)

- dotenv (for API key management)

- python-docx (for Word document generation)

Code Breakdown

1. Environment Setup: `.env` file securely stores the OpenAI API key.

2. Resume Loading: The resume is loaded from `resume.txt`.

3. Streamlit Interface: A user pastes the job description, clicks a button, and sees updated results.

4. Resume Editing Prompt: GPT receives structured instructions to rewrite bullet points per role.

5. Cover Letter Prompt: A persuasive, custom prompt crafts a standout cover letter using resume details only.

6. Download Feature: The generated cover letter is downloadable as a .docx file using `python-docx`.

How to Use This Tool

1. Paste your resume text into a file named `resume.txt` in the project folder.

2. Open a terminal, navigate to the folder, and run: `streamlit run app.py`

3. Paste a job description in the text box and click the button.

4. Copy or download the updated bullet points and the generated cover letter.

Benefits

- Saves time personalizing resumes and writing cover letters.

- Uses only real data from your resume - no made-up experience.

- Helps you stand out with confident, well-written content.

- Helps you apply faster, more accurately, and more often.

- You control everything locally - nothing is uploaded or stored.