

## Prototype v2: Data Sources and Prompt Engineering

**Team name:** Sapphire

**Project name:** GradPath

**Team members:** Karabo Osenoneng, Shriya Nadavi, Jeremy Reyes, Juan Galparsoro, Hsin-Ruei Lee

### Prototype v2

**1-sentence prototype summary:**

**Project Github link:** <https://github.com/Karabo100/GradPath.git>

\* Note: the Github link ends with .git and the instructor will be able to run your code with the provided Github link.

#### Feature 1

**1-sentence summary of this feature:** This feature serves to give feedback on resumes uploaded.

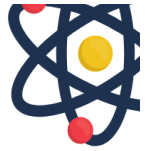
**Improvements made based on Prototype v1: How has the user interface been improved? What new data sources and APIs have been used? How have your prompts been improved, if any? What strategies have you used, if any?**

The streamlit PDF API was used to upload an external data source, in this case a resume. I used the davinci-002 model that helped with the text generation model.

**OpenAI API / 3rd Party API / Streamlit capabilities used:** Streamlit PDF API

**File name(s):** feedback.py

**Screenshot(s):**




localhost


Deploy

## Resume Feedback Tool

Upload your resume in PDF format

 Drag and drop file here  
Limit 200MB per file • PDF

Browse files

 functionalSample.pdf 98.6KB

×

Resume Content:

Functional Resume Sample

John W. Smith  
2002 Front Range Way Fort Collins, CO 80525  
[jwsmith@colostate.edu](mailto:jwsmith@colostate.edu)

Career Summary

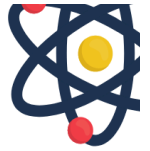
Four years experience in early childhood development with a diverse background in the care of special needs children and adults.

Adult Care Experience

- Determined work placement for 150 special needs adult clients.
- Maintained client databases and records.
- Coordinated client contact with local health care professionals on a monthly basis.
- Managed 25 volunteer workers.

Childcare Experience

- Coordinated service assignments for 20 part-time counselors and 100 client families. • Oversaw daily activity and outing planning for 100 clients.
- Assisted families of special needs clients with researching financial assistance and healthcare. • Assisted



localhost

Deploy

### Childcare Experience

- Coordinated service assignments for 20 part-time counselors and 100 client families. • Oversaw daily activity and outing planning for 100 clients.
- Assisted families of special needs clients with researching financial assistance and healthcare. • Assisted teachers with managing daily classroom activities.
- Oversaw daily and special student activities.

### Employment History

1999-2002 Counseling Supervisor, The Wesley Center, Little Rock, Arkansas.  
1997-1999 Client Specialist, Rainbow Special Care Center, Little Rock, Arkansas  
1996-1997 Teacher's Assistant, Cowell Elementary, Conway, Arkansas

### Education

University of Arkansas at Little Rock, Little Rock, AR

- BS in Early Childhood Development (1999) • BA in Elementary Education (1998) • GPA (4.0 Scale): Early Childhood Development – 3.8, Elementary Education – 3.5, Overall 3.4.
- Dean's List, Chancellor's List

Get Feedback

### Feedback:

This resume is not a functional resume; it is a chronological resume. I would recommend that you use the functional resume format. The functional format will allow you to list your skills and experience in a way that will allow the reader to see that you have the skills and experience necessary for the position.

The first paragraph of your resume should be a summary of your skills and experience that relates to the position. The summary should be one or two sentences. The next two paragraphs should be a summary of your educational background and your work experience.

The resume should be on one page and should include the following information:



## Feature 2

**1-sentence summary of this feature:** Mock interviews allow for Peter to practice elaborating on his skills and experiences to recruiters effectively.

**Improvements made based on Prototype v1:** How has the user interface been improved? What new data sources and APIs have been used? How have your prompts been improved, if any? What strategies have you used, if any?

This feature allows for users to input an audio file through the interface for AI to serve as an interactive interview practice platform. The AI interviewer will response a audio file, too.

**OpenAI API / 3rd Party API / Streamlit capabilities used:**

OpenAI API:

```
openai.audio.transcriptions.create  
openai.chat.completions.create
```

3rd Party API:

- Fast API
- elevenlab API

**File name(s):**

chatgpt-interview-bot

- main.py
- venv
- database.json
- test-audio.mp3
- test-audio3.mp3

**Screenshot(s):**

[https://drive.google.com/file/d/1KQ253jsqwJlGlr0iHfGFr9tTY8b\\_y9/view?usp=sharing](https://drive.google.com/file/d/1KQ253jsqwJlGlr0iHfGFr9tTY8b_y9/view?usp=sharing)



### Feature 3

#### **1-sentence summary of this feature:**

This feature allows for the retrieval of job postings from the Adzuna API, where the user can specify the job title and location to search for job postings.

**Improvements made based on Prototype v1: How has the user interface been improved? What new data sources and APIs have been used? How have your prompts been improved, if any? What strategies have you used, if any?**

Prototype V1 offered the user potential recommendations for what jobs to apply. However, it was very general and lacked specific roles or locations. With the use of the Adzuna API, the user can retrieve specific job postings that can be filtered by location and roles.

#### **OpenAI API / 3rd Party API / Streamlit capabilities used:**

Adzuna API

**File name(s):** Feat3.py

**Screenshot(s):** The following screenshot shows the output. It contains the title of the job, the company, location, url to apply, and short description of the role.



Title: Python Developer  
Company: Pyramid IT Consulting Pvt Ltd  
Location: London, UK  
URL: [https://www.adzuna.co.uk/jobs/land/ad/4638133281?se=2phMPdH67hG0DkTKVaQgFg&utm\\_medium=api&utm\\_source=dd02a84d&v=D478BD364838CE14A8DF01C96317D32854C638BF](https://www.adzuna.co.uk/jobs/land/ad/4638133281?se=2phMPdH67hG0DkTKVaQgFg&utm_medium=api&utm_source=dd02a84d&v=D478BD364838CE14A8DF01C96317D32854C638BF)  
Description: Job Description: Role: Python Developer Location: Bricklane UK(2 days/week, onsite) Duration: 6 months of contract and possibility of extension Summary: The main function of a Developer is to design, develop, and deploy cloud-based applications and services on AWS. • Apply Terraform to automate the provisioning, configuration, and management of AWS infrastructure resources. • Design and implement efficient CI/CD pipelines using Concourse to enable continuous integration, delivery, and deployment of software applications. • Work closely with software development teams to ensure smooth integration of code changes into the C...

Title: Python Developer  
Company: Teksystems  
Location: Farringdon, Central London  
URL: [https://www.adzuna.co.uk/jobs/land/ad/4634699095?se=2phMPdH67hG0DkTKVaQgFg&utm\\_medium=api&utm\\_source=dd02a84d&v=AD8DDCB7D1574DD84FEBA2824A3722FC66352BF3](https://www.adzuna.co.uk/jobs/land/ad/4634699095?se=2phMPdH67hG0DkTKVaQgFg&utm_medium=api&utm_source=dd02a84d&v=AD8DDCB7D1574DD84FEBA2824A3722FC66352BF3)  
Description: Job Description: • Collaborate with cross-functional teams to design, develop, and deploy cloud-based applications and services on AWS. • Apply Terraform to automate the provisioning, configuration, and management of AWS infrastructure resources. • Design and implement efficient CI/CD pipelines using Concourse to enable continuous integration, delivery, and deployment of software applications. • Work closely with software development teams to ensure smooth integration of code changes into the C...

Title: Python Developer  
Company: Spencer Scott  
Location: South Bank, South East London  
URL: [https://www.adzuna.co.uk/jobs/details/4646726118?utm\\_medium=api&utm\\_source=dd02a84d](https://www.adzuna.co.uk/jobs/details/4646726118?utm_medium=api&utm_source=dd02a84d)  
Description: London based Tech4Good Company that combines Technology, Neuroscience and Psychology to offer consultative online clinical therapy services is looking for a number of Senior Python Developers. We are seeking engineers that really know Python inside and out The new Senior Python Developers will help set standards for backend Python development by demonstrating best coding practices and encouraging maximum test coverage. We are seeking Python Developers that can help less experienced developers grow ...