



How to Build a Resume Optimizer with AI

Lightning Lesson

Shaw Talebi - Dec 11, 2024

About Me



Physics PhD
AI Researcher

2018



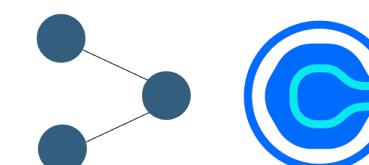
Data Scientist

2022

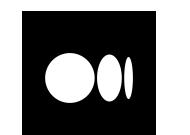


Data Entrepreneur

2023



Helped over 100 clients



16k+ followers



40k+ subscribers



The Problem

Adapting your resume to different job descriptions is tedious

Requirements of same job title varies by company.

Data Scientist (L4) - Content DSE

Netflix · Los Angeles, CA (On-site)

\$170K/yr - \$720K/yr · 401(k) benefit

2 connections · 30 school alumni · 84 company alumni

Data Scientist III, Research

Google · Sunnyvale, CA (On-site)

\$127K/yr - \$187K/yr

20 connections · 439 school alumni · 4,287 company alumni

What We're Looking For

- Advanced degree in Statistics, Mathematics, Behavioral Economics, Mathematical Psychology, Cognitive Science, or related quantitative field.
- Strong statistical knowledge and intuition that you have used in experimentation or other product analytics settings.
- Strong SQL skills and Quantitative Programming skills in Python or R.
- Ability to communicate technical and statistical concepts clearly and concisely among audiences at many different levels.
- Self-starter who thrives under a high level of autonomy and who has the ability to adapt to changing circumstances and handle multiple priorities.
- Good judgment to balance between addressing stakeholder or test-specific needs and investing in scalable solutions to serve general use cases. Ability to coordinate multiple workstreams, and prioritize multiple experiments.
- Exceptional interpersonal and communication skills.
- Enthusiastic about Netflix culture.

Preferred qualifications:

- Master's degree in Statistics, Data Science, Mathematics, Physics, Economics, Operations Research, Engineering, or a related quantitative field.
- 3 years of work experience using analytics to solve product or business problems, coding (e.g., Python, R, SQL), querying databases or statistical analysis, or a PhD degree.

• 5 years of work experience using analytics to solve product or business problems, coding (e.g., Python, R, SQL), querying databases or statistical analysis, or a PhD degree.

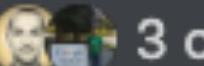
The Problem

Adapting your resume to different job descriptions is tedious

Or maybe you want to explore adjacent roles...

 **Machine Learning Engineer** 
Amazon · Seattle, WA
\$129.3K/yr - \$223.6K/yr · 401(k) benefit
 11 connections  1,212 school alumni
 456 company alumni

 **AI Research Engineer - AI Answer**
Perplexity · San Francisco Bay Area (On-site)
\$200K/yr - \$280K/yr · Vision benefit
 1 school alum

 **Machine Learning Engineer** 
Atlassian · United States (Remote)
\$156K/yr - \$231.1K/yr
 3 connections  32 school alumni
 7 company alumni

 **Applied AI Product Engineer**
Anthropic · Seattle, WA
\$200K/yr - \$300K/yr
 6 company alumni  2 school alumni

Can't I just use ChatGPT?

Can't I just use ChatGPT?

Long prompts are a pain



You are a professional resume optimization expert specializing in tailoring resumes to specific job descriptions. Your goal is to optimize my resume and provide actionable suggestions for improvement to align with the target role.

Guidelines:

1. Relevance:

- Prioritize experiences, skills, and achievements **most relevant to the job description**.
- Remove or de-emphasize irrelevant details to ensure a **concise and targeted** resume.
- Limit work experience section to 2-3 most relevant roles
- Limit bullet points under each role to 2-3 most relevant impacts

2. Action-Driven Results:

- Use **strong action verbs and quantifiable results** (e.g., percentages, revenue, efficiency improvements) to highlight impact.

3. Keyword Optimization:

- Integrate **keywords** and phrases from the job description naturally to optimize for ATS (Applicant Tracking Systems).

4. Additional Suggestions (*If Gaps Exist*):

- If the resume does not fully align with the job description, suggest:
 1. **Additional technical or soft skills** that I could add to make my profile stronger.
 2. **Certifications or courses** I could pursue to bridge the gap.
 3. **Project ideas or experiences** that would better align with the role.

5. Formatting:

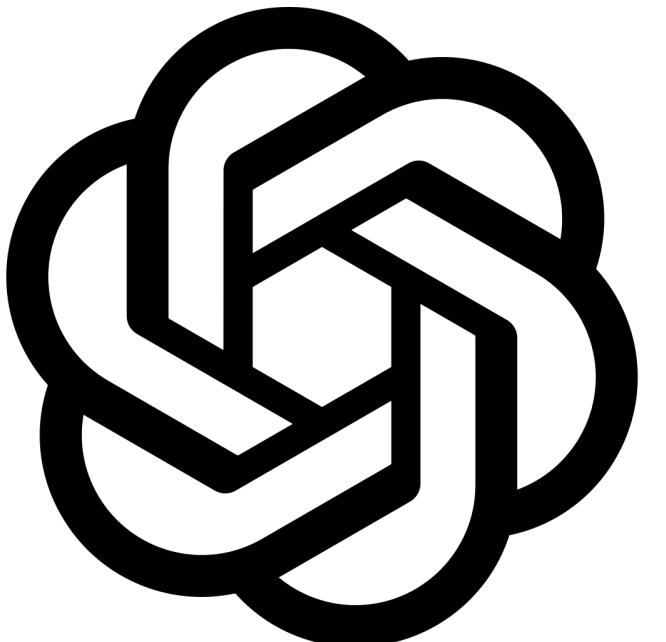
- Output the tailored resume in **clean Markdown format**.
- Include an "**Additional Suggestions**" section at the end with actionable improvement

Can't I just use ChatGPT?

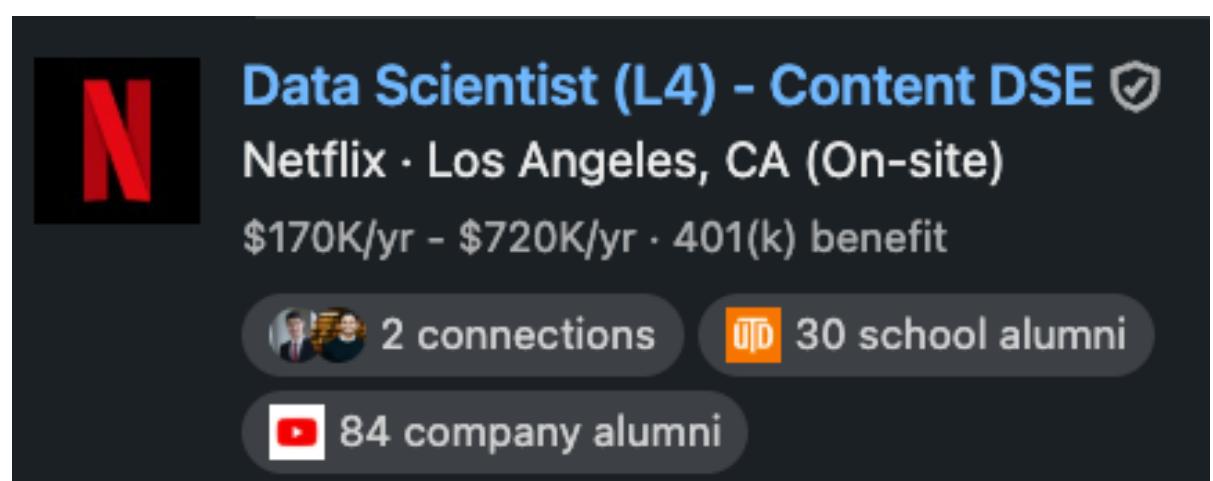
While one JD isn't too bad...



Original resume

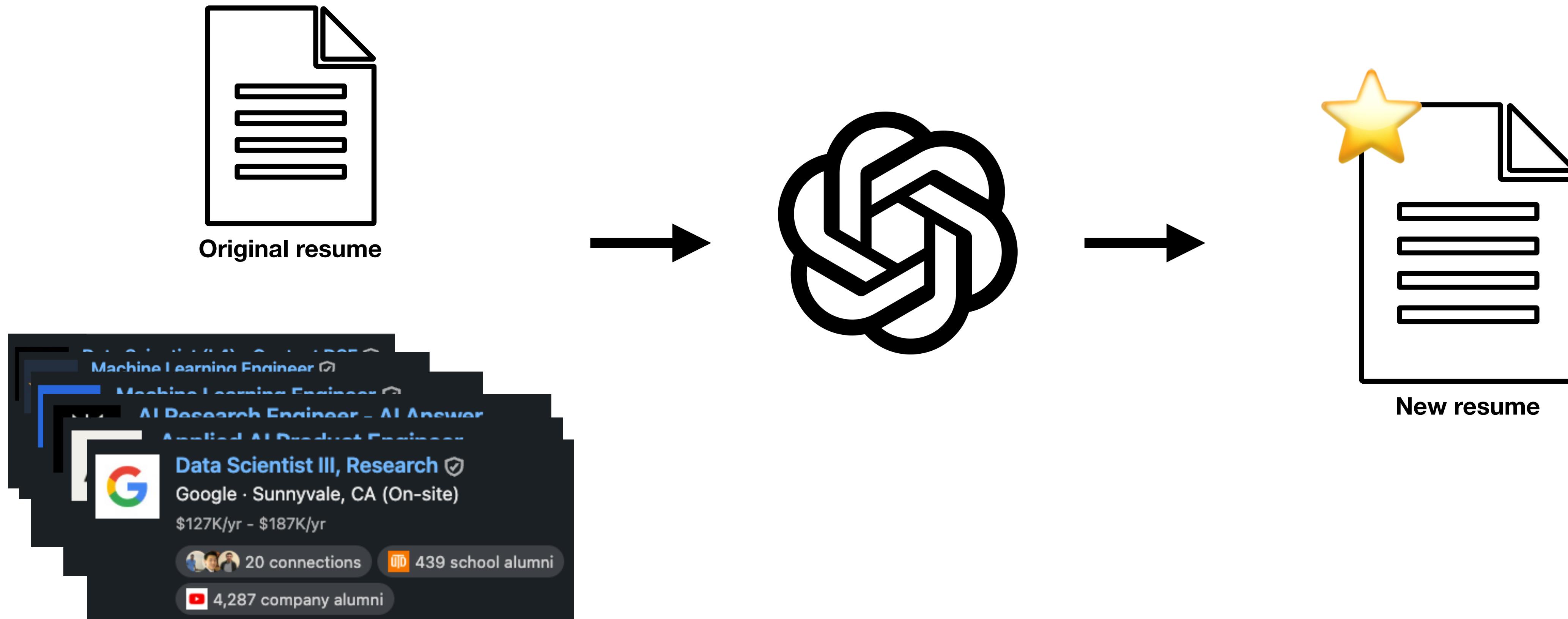


New resume



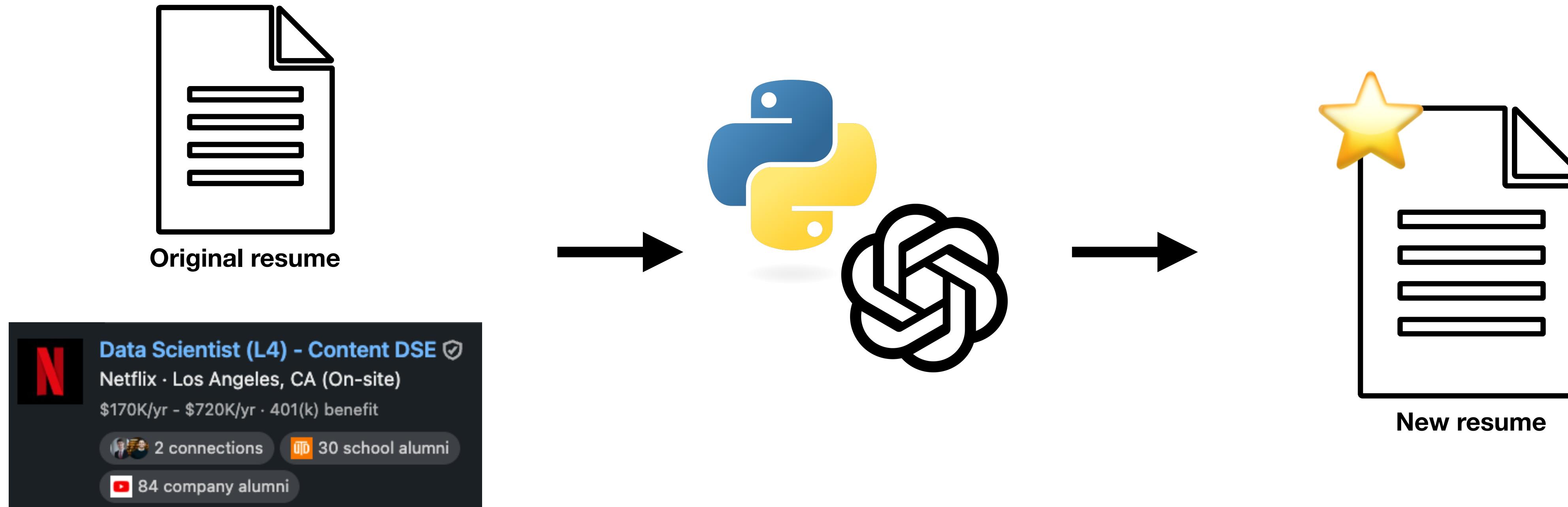
Can't I just use ChatGPT?

... bulk processing is not convenient



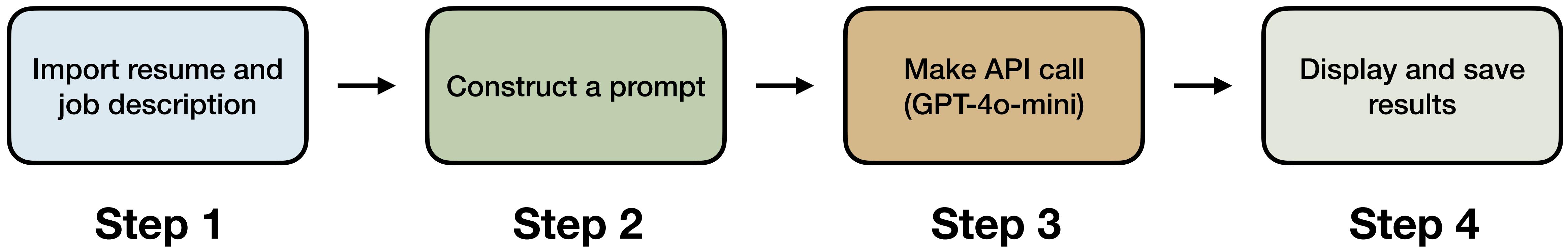
Example: Automated Resume Optimizer

Automate resume rewriting process with Python + OpenAI API

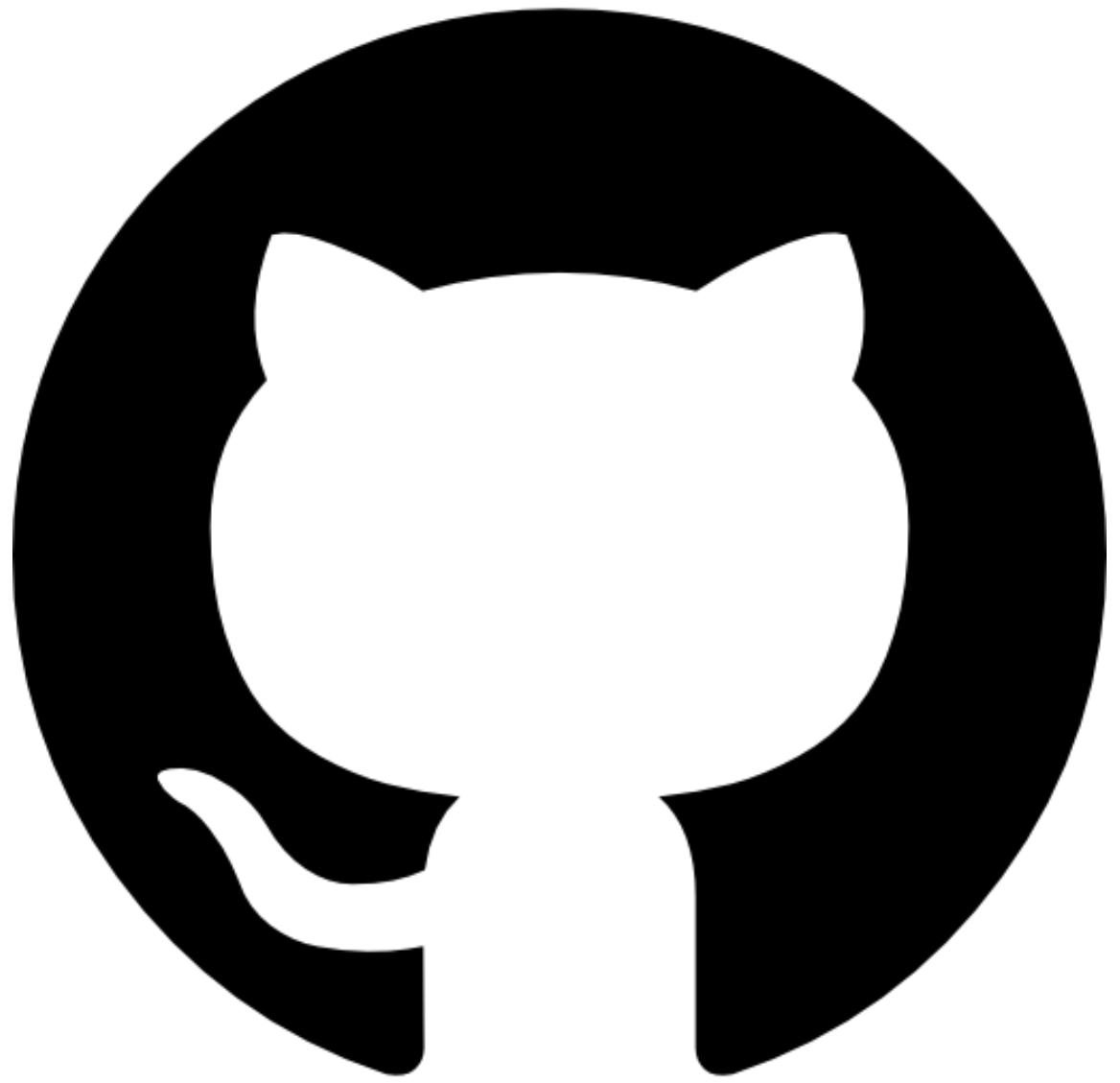


Example: Automated Resume Optimizer

Flowchart (4-Step Process)



Example: Automated Resume Optimizer



<https://github.com/ShawhinT/AI-Builders-Bootcamp-2>

Q&A (coming up)

AI Builders Bootcamp

Learn AI by Building It - (*Cohort #2: Jan 10 to Feb 21*)

Course Title: AI Builders Bootcamp - Cohort #2

Instructor: Dr. Shaw Talebi

Email: shawhintalebi@gmail.com

Session times: Weekly live sessions on Fridays from 10AM - 12PM CST

Course Length: 6 sessions (12 hours total)

Location: Sessions will be hosted via Zoom

Who is this for?



Technical professionals



Business leaders & PMs



Entrepreneurs

This course includes

6 interactive live sessions

Lifetime access to course materials

12 in-depth lessons

Direct access to instructor

5 projects to apply learnings

Guided feedback & reflection

Private community of peers

Course certificate upon completion

AI Builders Bootcamp

Learn AI by Building It - (*Cohort #2: Jan 10 to Feb 21*)



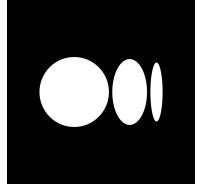
The image shows a screenshot of the AI Builders Bootcamp landing page. At the top left, there's a blue button with white text that reads "AI Builders Bootcamp". To the right of this button is a photograph of a smiling man with a beard, wearing a white t-shirt and a black baseball cap, with his arms crossed. Below the button, the text "By: Shaw Talebi" and "AI Educator & Advisor" is displayed. Further down, a section titled "Trusted by clients from:" lists logos for Deloitte, Squarespace, Accenture, and MIT. In the center of the page, the original price "\$700" is crossed out in red, and the discounted price "\$420" is shown in red. Below this, the text "NEXT COHORT" and "Jan 10—Feb 21, 2025" is listed. At the bottom is a large green button with the word "Enroll" in white.

Lightning Lesson Promo ★

Code: Lightning40

40% discount!

Q&A

-  [@shawhintalebi](https://www.linkedin.com/in/shawhintalebi)
-  [@ShawhinTalebi](https://www.youtube.com/@ShawhinTalebi)
-  [@shawhin](https://github.com/shawhin)

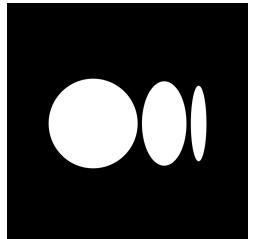
AI Builders Bootcamp

Homework (optional)

Pre-work

(est. 1-2 hr/wk)

Watching videos or reading articles to prepare for upcoming lectures



Pros

Get preview of upcoming lecture topics

Prepare questions before lecture

Projects

(est. 1-10 hr/wk)

Open-ended assignments aimed at applying learnings from lecture.

Ideas shared in learner community.

Tip: Focus on solving problems

Pros

Solidify understanding of key concepts

Feature projects in portfolio

Receive feedback from instructor

AI Builders Bootcamp

How to be successful

How can I get the most out this course?

1. Attend live sessions
2. Complete pre-work (prior to lecture)
3. Engage with fellow cohort members (on and off Maven)
4. Do weekly projects

How can I get help outside lecture?

1. Post in learner community
2. DM on Maven or Email me

