



SKILL Sage

Resume ENHANCEMENT and SKILLS GAP ANALYSIS

Meet the Creators



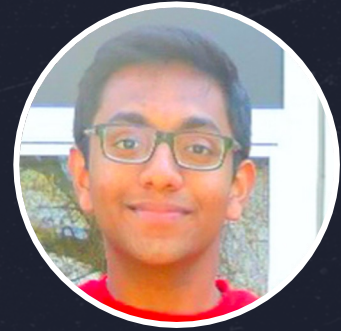
SOFIA COLELLA



COLLIN CHEE



DAN NEALON



ABEL NINAN



THE STRUGGLE OF Continuous Rejection



"75% of qualified applicants are rejected by ATS"

- Forbes

Human recruiters spend "as little as 6 seconds" reading a resume

- Ladders Eye Tracking Study

How can I properly represent myself on my resume?



Fear Not, We Are Here For You!



New GRADUATES



SEASONED PROFESSIONALS



We Want to Make You PERFORM Better!





SKILL Sage Live Demo

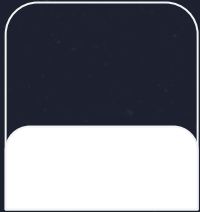
Let's Go Meet the SKILL Sage!



Take a Look at the Data



5K



JOB TITLES

Titles + Skills

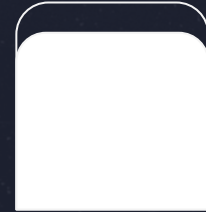
22K



JOB DESCRIPTIONS

Dice

28K

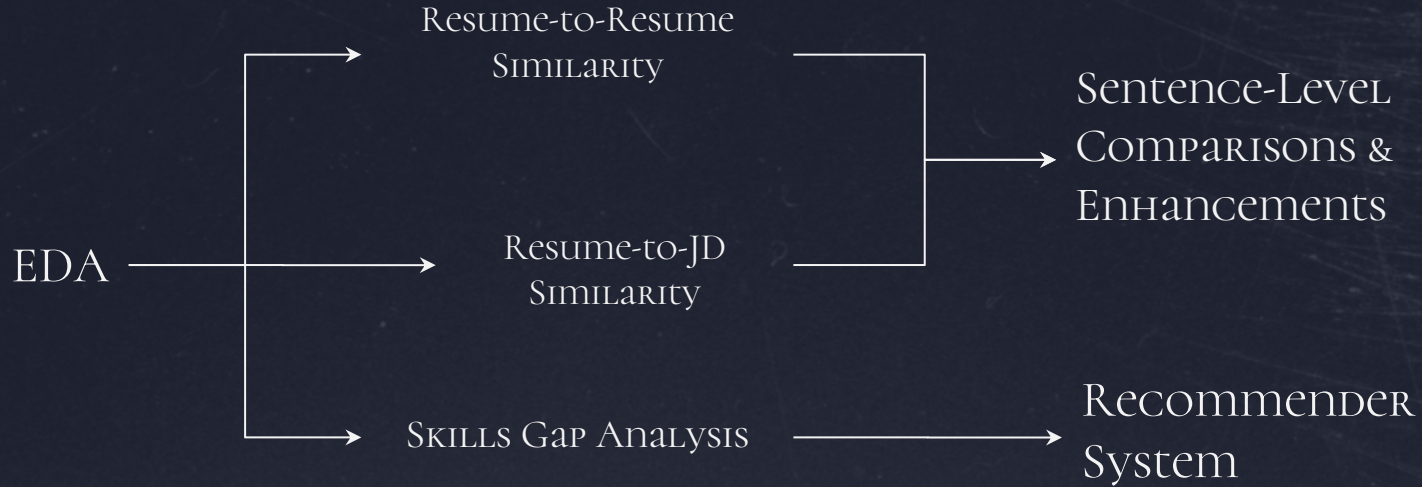


Resumes

Indeed



OUR ODYSSEY FROM EDA TO MODELING





Resume Input + Desired
Role Title +
Job Description*
(Optional)

University of California, Berkeley - Master of Information and Data Science
The University of California, Berkeley, is pleased to announce the launch of the Master of Information and Data Science (MIDS) program. This program is designed to provide students with the skills and knowledge needed to succeed in the rapidly evolving field of data science. The program is interdisciplinary, drawing on expertise from the School of Public Health, the School of Journalism, and the School of Information.

Program Description
The MIDS program is a two-year, full-time program. It is designed to provide students with a strong foundation in data science, as well as the skills and knowledge needed to apply this knowledge in a variety of contexts. The program is interdisciplinary, drawing on expertise from the School of Public Health, the School of Journalism, and the School of Information.

Program Objectives
The MIDS program is designed to provide students with the following skills and knowledge:
- A strong foundation in data science, including statistics, machine learning, and data visualization.
- The ability to apply data science to a variety of contexts, including public health, journalism, and information science.
- The ability to communicate effectively about data science, both in writing and in person.

Program Structure
The MIDS program is a two-year, full-time program. It is designed to provide students with a strong foundation in data science, as well as the skills and knowledge needed to apply this knowledge in a variety of contexts. The program is interdisciplinary, drawing on expertise from the School of Public Health, the School of Journalism, and the School of Information.

Program Requirements
The MIDS program is designed to provide students with the following skills and knowledge:
- A strong foundation in data science, including statistics, machine learning, and data visualization.
- The ability to apply data science to a variety of contexts, including public health, journalism, and information science.
- The ability to communicate effectively about data science, both in writing and in person.

Program Benefits
The MIDS program is designed to provide students with the following skills and knowledge:
- A strong foundation in data science, including statistics, machine learning, and data visualization.
- The ability to apply data science to a variety of contexts, including public health, journalism, and information science.
- The ability to communicate effectively about data science, both in writing and in person.

Program Contact
For more information about the MIDS program, please contact the program director at mids@berkeley.edu.

Input



Resume Input + Desired
Role Title +
Job Description*
(Optional)

Convert
Resume + JD to
Embeddings

Resume to Job
Similarity
With JD corpus or
Inputted JD*



Input

Backend



Resume Input + Desired Role Title + Job Description* (Optional)

Convert Resume + JD to Embeddings

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Resume Alchemy: Job Affinity

Sorcerer's Selection

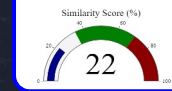
Magical Sentence Crafting

Wizardsly Word Count

Resume Text

Resume Alchemy: Job Affinity Edition

Visualize the magical bond between your resume and the job description!



Sorcerer's Selection: Showcasing Your Resume's Strongest Sentences

Break! Your resume builds sentences of mystical might, fueled by the power of words. These are hidden on your secret wizardry!

- Collaborate with stakeholders, radiologists, and cross functional teams to optimize product models while actively contributing to the development of the products business logic.
- Developed the data science module of a customer product which uncovers time-saving opportunities in radiologists workflow.

Magical Sentence Crafting

Witness the wizardry of our 'Magical Sentence Crafting' feature! LLMs are pretty magical.

Original Sentence:

Associate Data Scientist Radiology Partners, **Revised NOVEMBER 2021, NOVEMBER 2022** Refined enterprise core AI product 'wizardry' via fine-tuned development, NLP feature integration, and leveraging radiologist feedback resulting in increased accuracy, usability, and overall

Updated Sentence:

Other responsibilities of the role would include: Refined enterprise core AI product 'wizardry' via fine-tuned development, NLP feature integration, and leveraging radiologist feedback resulting in increased accuracy, usability, and overall performance. Build and maintain data pipelines to

Wizardsly Word Count

Dive back on the mystical journey of resume word counting, with wizardry! Discover the excitement and see how your word count stacks up against the magical averages for your chosen job title.



Input

Backend

Output



Resume Input + Desired Role Title + Job Description* (Optional)

Convert Resume + JD to Embeddings

Resume to Job Similarity With JD corpus or Inputted JD*

Resume Alchemy: Job Affinity

Sorcerer's Selection

Magical Sentence Crafting

Wizardsly Word Count

Existing Skills Extracted via AWS Bedrock

Resume Text

Resume Text

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Visualize the magical bond between your resume and the job description!

Similarity Score (%)

22

Sorcerer's Selection: Showcasing Your Resume's Strongest Sentences

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Original Sentence:	Updated Sentence:
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534

Input Backend Output



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Convert Resume + JD to Embeddings

Resume to Job Similarity With JD corpus or Inputted JD*

Resume Alchemy: Job Affinity



Sorcerer's Selection

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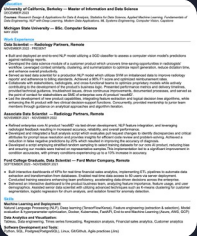
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Role Title

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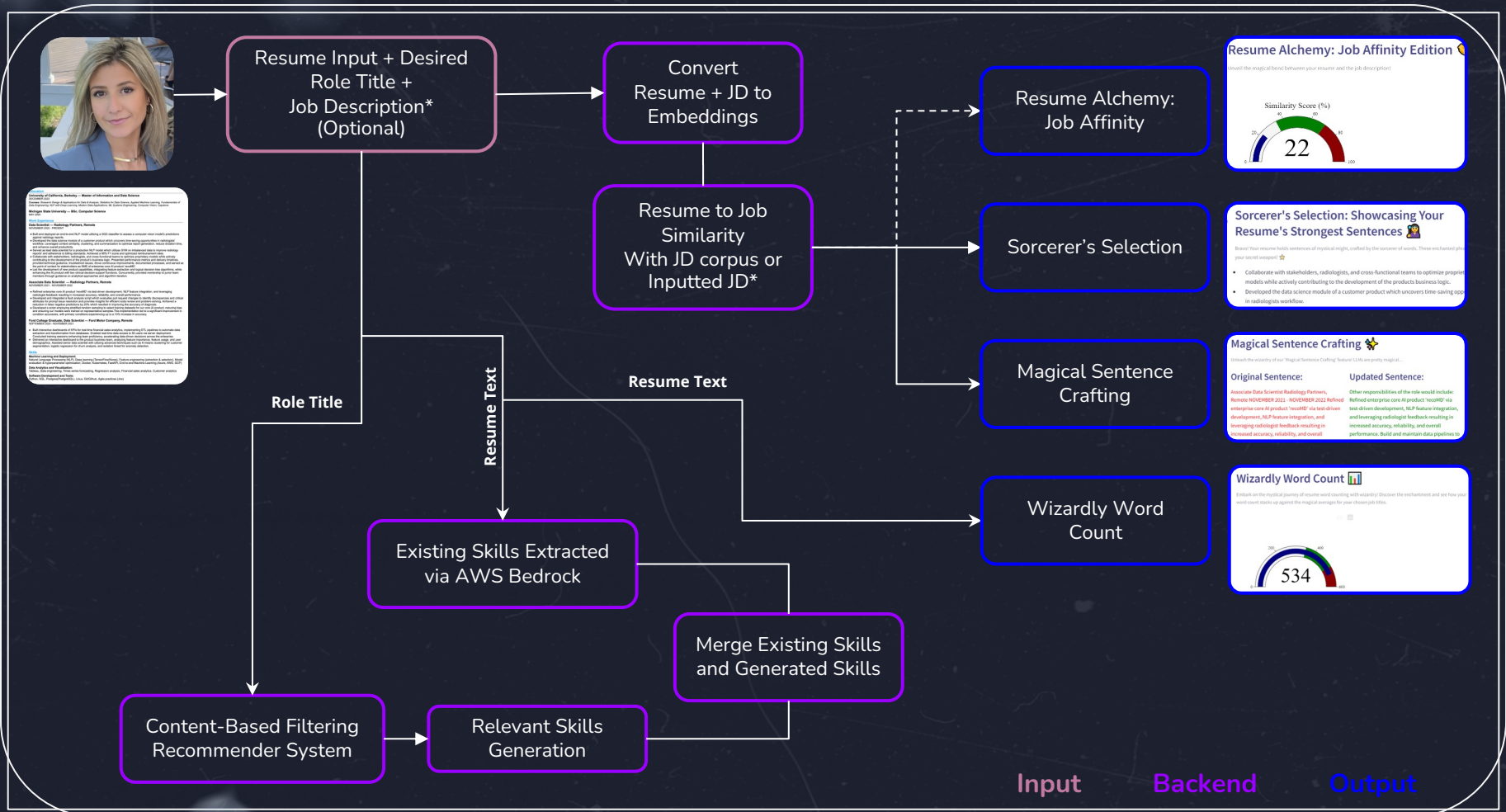
Resume Text

Existing Skills Extracted via AWS Bedrock

Content-Based Filtering Recommender System

Relevant Skills Generation

Input Backend Output



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Sorcerer's Selection

Magical Sentence Crafting

Wizardsly Word Count

Existing Skills Extracted via AWS Bedrock

Merge Existing Skills and Generated Skills

Content-Based Filtering Recommender System

Relevant Skills Generation

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Reveal the magical bond between your resume and the job description!

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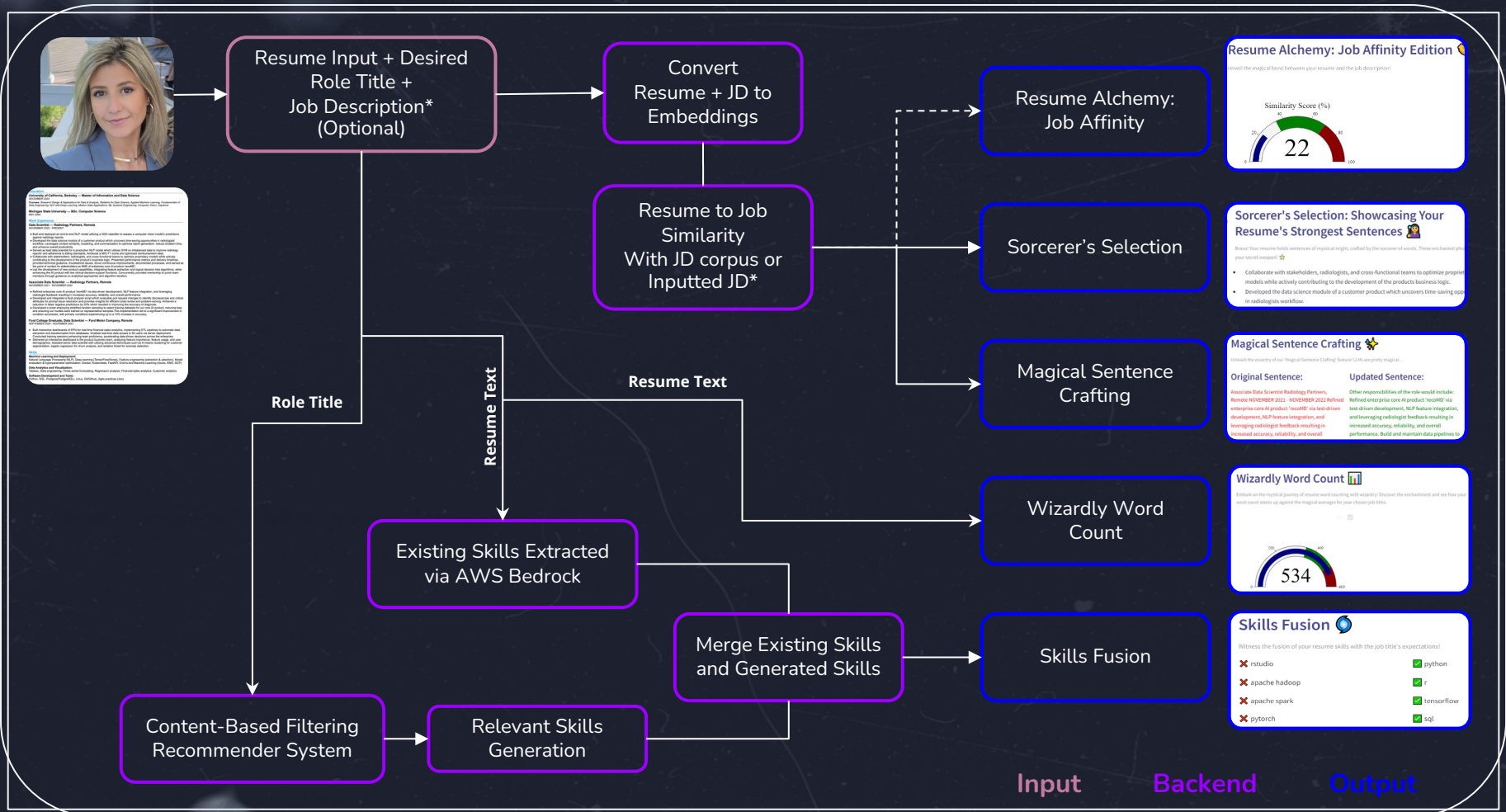
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Merge Existing Skills and Generated Skills

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Skills Fusion

Witness the fusion of your resume skills with the job title's expectations!

<input checked="" type="checkbox"/> rstudio	<input checked="" type="checkbox"/> python
<input checked="" type="checkbox"/> apache hadoop	<input checked="" type="checkbox"/> r
<input checked="" type="checkbox"/> apache spark	<input checked="" type="checkbox"/> tensorflow
<input checked="" type="checkbox"/> pytorch	<input checked="" type="checkbox"/> sql

Input Backend Output

Resume ALChemy

A CLOSER LOOK at the Resume-JD SIMILARITY

TF-IDF Term Frequency-Inverse Document Frequency

Baseline
Sparse Vectors
Matches Terms
together

Cosine Similarity

Overemphasizes
repeated terms

BM25 Best Matching 25

Improved TF-IDF
Includes Document
Length as a factor

Own similarity scale

No comparable
similarities

Sentence Transformers: All MiniLM L6 v2

Utilizes Deep Learning
Dense Embeddings
Uses Attention to
understand context

Cosine Similarity

Can balance varying
sentence lengths and
synonyms

User Testing

- | | |
|-----------------|-----------------------|
| ✗ rstudio | ✓ python |
| ✗ apache hadoop | ✓ r |
| ✗ apache spark | ✓ tensorflow |
| ✗ pytorch | ✓ sql |
| ✗ scikit-learn | ✓ git |
| ✗ pandas | ✓ github |
| ✗ numpy | ✓ tableau |
| ✗ matplotlib | ✓ docker |
| ✗ power bi | ✓ aws |
| ✗ time series | ✓ azure |
| | ✓ regression analysis |

*It said I know python,
why is it saying I don't
know pandas?*

- Data Analyst

*Presented performance metrics and delivery
timelines, provided technical guidance,
troubleshoot issues, drove continuous
improvements, documented processes, and served
as the point of contact for stakeholders as SME of
enterprise core AI product recoMD.*

*Made me rethink how I
structure my sentences.*

- Data Analyst

Updated Sentence:

*Assisted senior data scientists in fully integrating
advanced techniques such as K-means clustering
for customer segmentation, logistic regression for
churn analysis, and isolation forest for anomaly
detection into business solutions by
operationalizing machine learning models using
Python libraries like Scikit-Learn and Pandas.*

*Does a pretty good job of
expanding on the details
of the experience section.*

*- Data Scientist
Hiring Manager*

OUR ACCOMPLISHMENTS



01

ScALABILITY



02

SPeED

03

LLM
IntegrATIOn



04

Data-Driven
SKILLS GAP ANALYSIS



OUR FUTURE QUESTS



01 Market Expansion

Expand to non-tech
(92% of workforce)



02

ATS Testing

Validation & Future
Capability Exploration

03 Customer Testimonials

Testimonials help with
brand reputation and
marketing!





TURN ASPIRATIONS INTO APPLICATIONS

Let SKILL Sage HELP TELL YOUR STORY

THE SKILL Sage
Thanks You!!

