The Ultimate Resume Screening Tool That Recruiters Should Know About

Jenny Wang | May 22, 2020



7,000

job openings

- Laszlo Bock, Head of HR, Google (2014)







3 million

resumes received per year

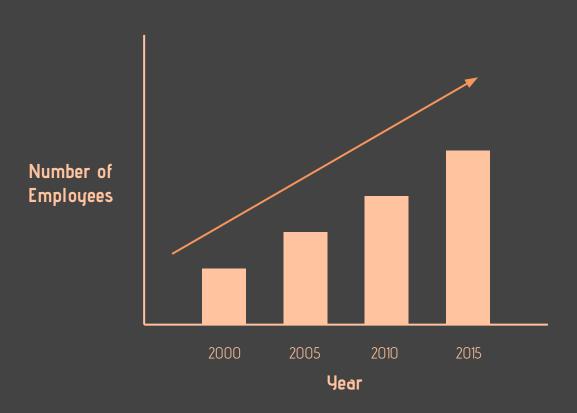
- Laszlo Bock, Head of HR, Google (2014)



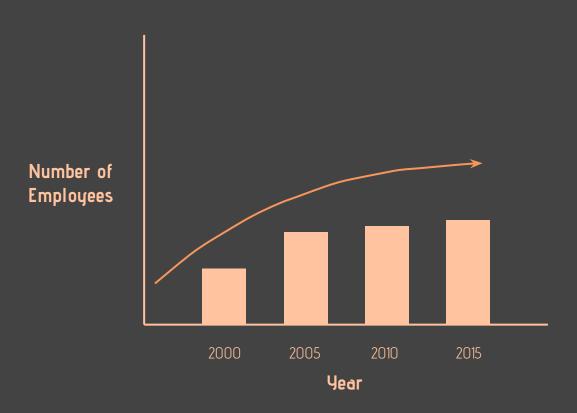




Recruiting Team Growth



Recruiting Team Growth



Resume Recommendation System





APPROACH









Data Collection

80,000 job listings 1,000 resumes (Kaggle)



stop words removal part-of-speech tagging lemmatized alpha characters

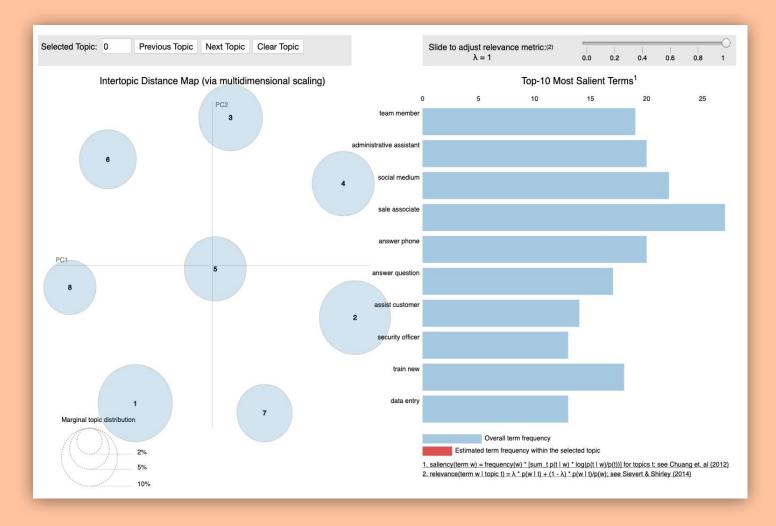
Topic Modeling

LDA

Recommendation System

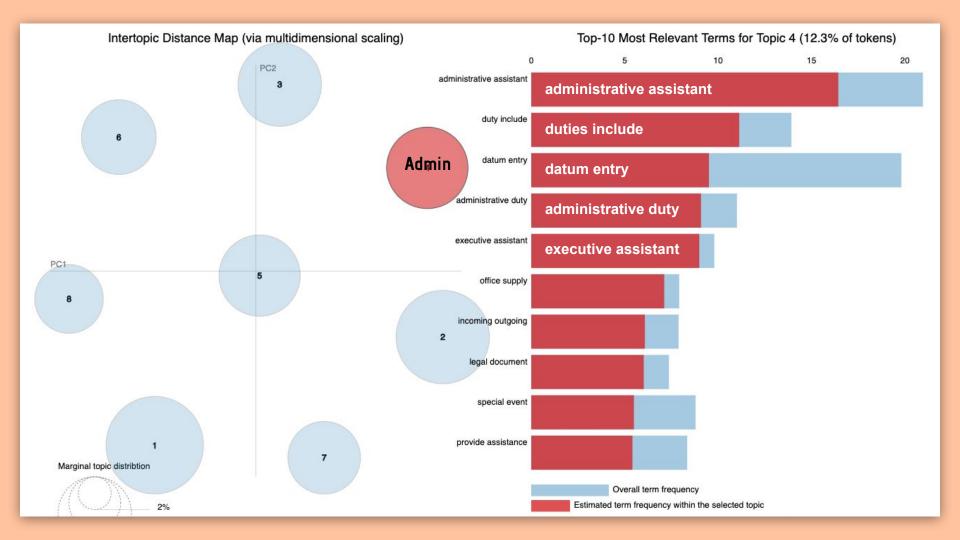
cosine similarity

Intertopic Distance Map

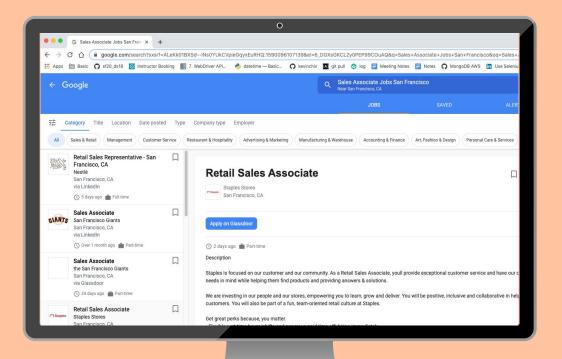


Intertopic Distance Map





Let's take a look at a real job listing ...



We'll take a closer look

Retail Sales Associate

SAVE <

☐ Staples

Staples Stores San Francisco, CA

Apply on Glassdoor

(3) 2 days ago em Part-time

Part-till

Description

Staples is focused on our customer and our community. As a Retail Sales Associate, youll provide exceptional customer service and have our customers needs in mind while helping them find products and providing answers & solutions.

We are investing in our people and our stores, empowering you to learn, grow and deliver. You will be positive, inclusive and collaborative in helping our customers. You will also be part of a fun, team-oriented retail culture at Staples.

Get great perks because, you matter.

- · Flexible part time hours/shifts and generous paid time off; hiring immediately
- · Associate store discount and more perks (discounts on mobile plans, movie tickets, etc.)
- · 401(k) plan with a company match, dental, vision and life insurance, short-term disability, and many more benefits

Provide an exceptional customer experience.

- · Respond quickly and resourcefully to customer requests and concerns
- · Create a positive, inviting environment for customers

Play an active role in helping both your store and your customer win.

- Multitask on sales responsibilities and merchandising while maintaining a neat and clean store
- Multidask off sales responsibilities and merchandising while maintaining a near and clean sto

It requires mostly "customer service" experience

Retail Sales Associate Staples Stores San Francisco, CA Apply on Glassdoor © 2 days ago Part-time Description

Staples is focused on our customer and our community. As a Retail Sales Associate, youll provide exceptional customer service and have our customers needs in mind while helping them find products and providing answers & solutions.

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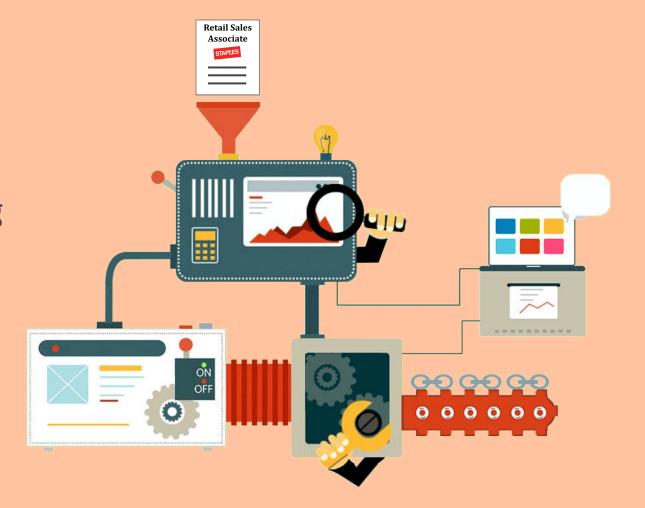
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Put the job listing through the recommendation engine!



Recommended Resume #1



- Accommodated guests with special meal requests
- Tracked guest satisfaction throughout the meal to ensure a pleasant experience

...

Recommended Resume #2



- Assisted with answering questions regarding store policies, processing their returns and merchandise.
- Restock sales floor, help customers locate items.

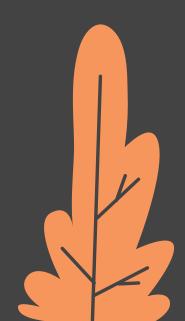
...



THANK YOU

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APPENDIX



FUTURE WORK

- → Obtain **company data** on job description, candidate resumes, and additional internal information (job level)
- → Work with Recruiters to apply supervised learning techniques, using screened-in resumes
- → Work with Engineering to apply **user feedback loop** to continuously improve the recommendation engine

Here are the 8 topics!

MARKETING CUSTOMER SERVICE ADMIN SALES SECURITY BUSINESS HR RESTAURANT

UMAP Projection of Types of Resumes (LDA | Euclidean Distance) 10 5 0 -5 Topic 2 Topic 5 Topic 1 Topic 4 -10Topic 7 Topic 6 Topic 8 Topic 3 -15 2.5 0.0 5.0 7.5 12.5 -2.5 10.0 -5.0 15.0

UMAP

