

Resume Screening With NLP



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What is resume screening?

Resume screening is the process of determining whether a candidate is qualified for a role based his or her education, experience, and other information captured on their resume.



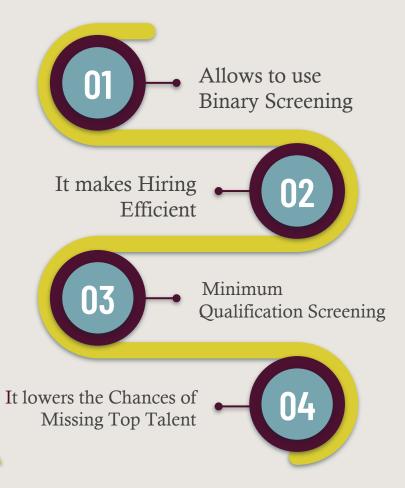


Why do we need Resume Screening?

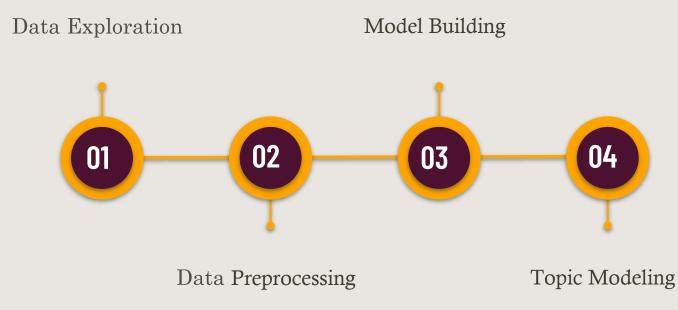
Choosing the right people for the job is the biggest responsibility of every business since choosing the right set of people can accelerate business growth exponentially. Due to many big projects with big companies, their team does not have time to read resumes and choose the best resume according to their requirements.



TARGET



PROJECT PERFORMANCE







DATA SOURCE

We have publically available data from Kaggle. https://www.kaggle.com/gauravdut_akiit/resume-dataset

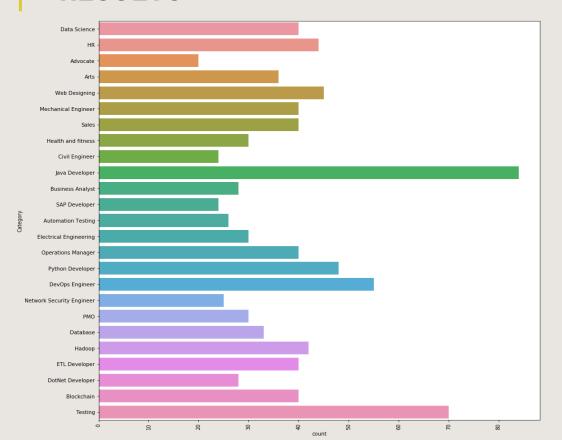
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TOOLS

Warnings naive_bayes OneVsRestClassifier CountVectorizer TruncatedSVD, LSA cosine_similarity GridSpec nltk wordcloud scipy



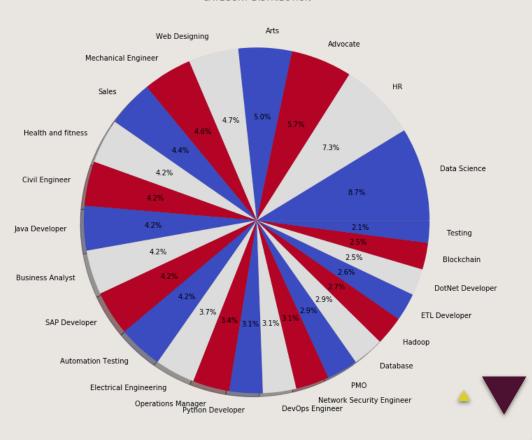


There are 25 different categories we have in the data. The top 3 job categories we have in the data are as follows.

Java developer, Testing, and DevOps Engineer.



CATEGORY DISTRIBUTION



Accuracy of KNeighbors Classifier on training set: 0.99

Accuracy of KNeighbors Classifier on set set: 0.99

We can see that results are awesome. We are able to classify each Category of a given resume with 99% accuracy.



Topic Modeling Latent Semantic Analysis (LSA)

```
Topic 0 project, company, exprience, description, team, management, months, details, data, client

Topic 1 client, project, team, honeywell, fat, ges, activity, monitored, quality, korea

Topic 2 company, operations, management, services, team, international, india, inventory, customer, handling

Topic 3 test, testing, automation, business, qtp, involved, cases, integration, responsibilities, requirement

Topic 4 data, management, hadoop, project, hive, services, sap, billing, sla, report

Topic 5 data, company, hadoop, using, hive, ensuring, inventory, freight, shipments, etl
```





Conclusion

we learned how machine learning and Natural Language Processing can be applied to improve our day-to-day life through the example of Resume Screening. We just classified almost 1000 resumes in few minutes into their respective categories with 99% accuracy



THANKS!

