



# RESUME PARSING USING NLP

GROUP - 4

GUIDE : REMYA M S

## ABSTRACT

- The project analyzes resumes using Natural Language Processing (NLP) to extract relevant keywords and categorize them based on different skills and qualifications.
- It involves the extraction of relevant keywords from resumes and categorizing them based on different skills and qualifications.
- It implements machine learning algorithms to enhance the accuracy and efficiency of keyword extraction and categorization processes.

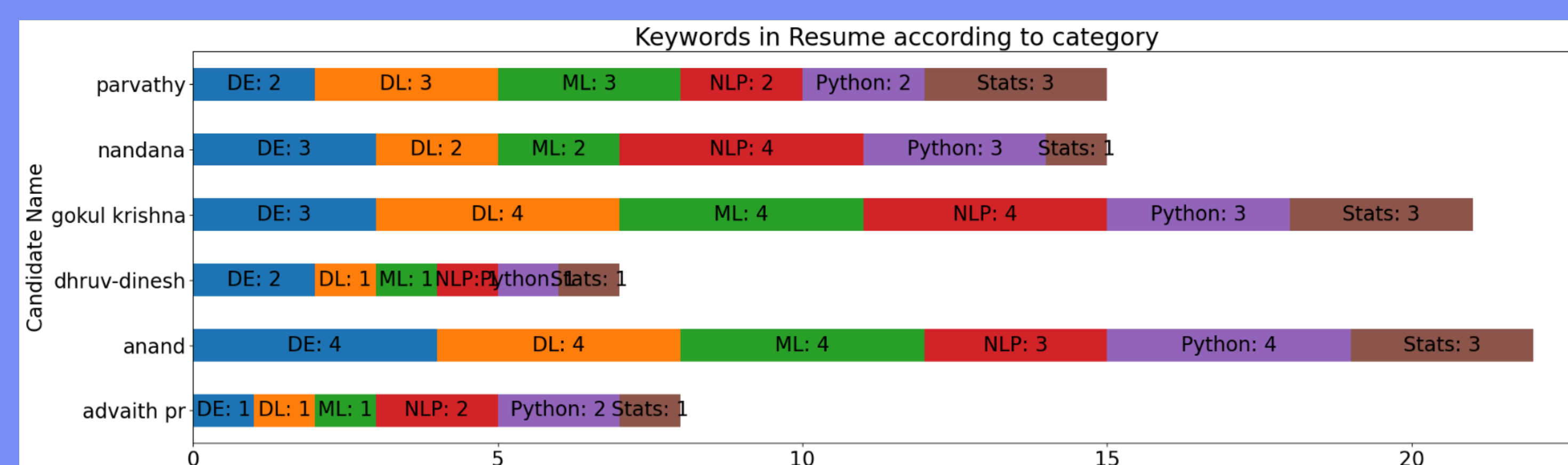
## OBJECTIVES

- The project aims to create an advanced Resume Scoring algorithm using NLP to parse resumes, extract relevant skills, and match them against predefined requirements.
- Candidate profiles are scored based on extracted skills and visualized through bar graphs, facilitating efficient evaluation for recruiters, thereby automating and improving the recruitment process.

## DATA

- This project utilizes two primary data components: a corpus derived from Wikipedia via Sketch Engine, which generates a comprehensive skill vocabulary for word embeddings and a set of words which are most commonly used in English conversations.
- Resumes, gathered and stored in a specific folder, are extracted as text using PyPDF. These are preprocessed and analyzed to align skills with the corpus, creating candidate profiles for scoring and visualization.

## RESULTS



	Candidate Name	DE	DL	ML	NLP	Python	Stats
0	advaith pr	1	1	1	2	2	1
1	anand	4	4	4	3	4	3
2	dhruv-dinesh	2	1	1	1	1	1
3	gokul krishna	3	4	4	4	3	3
4	nandana	3	2	2	4	3	1
5	parvathy	2	3	3	2	2	3

## CONCLUSION

- The developed application can effectively score resumes by matching mentioned skills to predefined keywords using NLP techniques.
- The semantic matching and visualization of scores aid recruiters in assessing candidate profiles efficiently. The model's accuracy can be improved with a more refined and extensive corpus.
- Overall, the project underscores the potential of NLP in streamlining recruitment processes by automating initial candidate screening based on skill relevance, offering a promising foundation for future advancements in this field.

## REFERENCES

- <https://machinelearningmastery.com/develop-word-embeddings-python-gensim/>
- <https://www.shanelynn.ie/word-embeddings-in-python-with-spacy-and-gensim/>
- <https://app.sketchengine.eu/>