



Resume Analyzer



Project Overview

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In this project, we will use SpaCy for entity recognition and explore various NLP tools for text analysis. Our goal is to help recruiters quickly screen applications, with a feature to match skills and assist hiring managers in deciding on interview candidates. We will use two datasets: resume texts and a list of skills for creating an entity ruler. The objectives are to reduce recruiter workload, improve applicant quality based on stated requirements, and implement a more efficient and unbiased hiring system.





Problem Statement

Companies need high-quality employees to solve problems and meet changing needs. Hiring competitive and reliable workers is essential. However, the large number of resumes and CVs makes the review process lengthy and challenging for recruiters. Often, bright candidates are overlooked due to the overwhelming volume of applications.

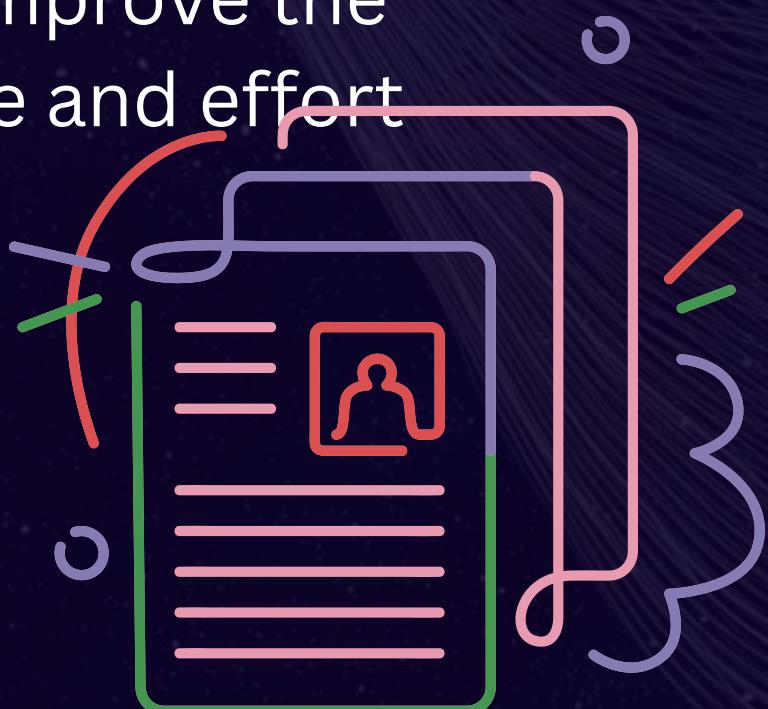


Project Objective

- Extracts key information from resumes using entity recognition.
- Matches candidate skills with job requirements to evaluate suitability.
- Reduces the time and effort required for initial resume screening.

Project Question

- How can natural language processing (NLP) tools be utilized to accurately extract key information such as personal details, education, work experience, and skills from resumes?
- What strategies can be used to effectively match the extracted skills from resumes with predefined job-specific skill requirements to evaluate candidate suitability?
- How can the integration of automated resume analysis and skills matching improve the efficiency and effectiveness of the recruitment process by reducing the time and effort involved in initial resume screening for hiring managers and recruiters?



Methodology



Data Collection

Gather relevant data from diverse sources.



Preprocessing

Clean, normalize, and engineer data.



Visualization

Show a few visual



Data Collection

- GITHUB
- Dataset from Kaggle which is Resume.csv
- information pertaining to jobs



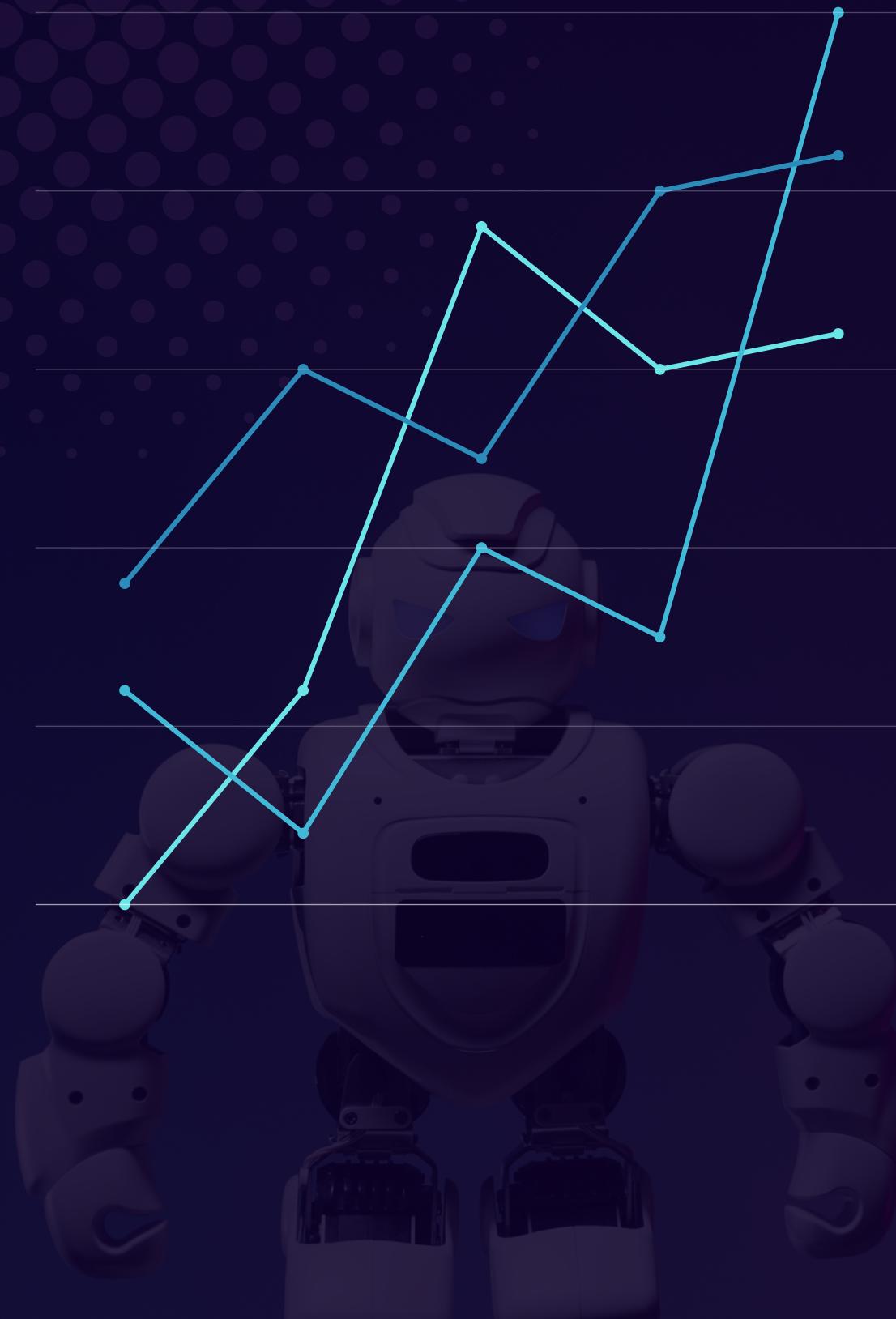
Preprocessing

In a few stages, we will utilize the nltk package to clean our dataset:

- Regex will be used to remove unwanted character such as special characters, and hyperlinks.
- Text lowering
- Splitting text into array based on space
- Lemmatizing text to its base form for normalizations
- Removing English stopwords
- Appending the results into an array.



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Visualization



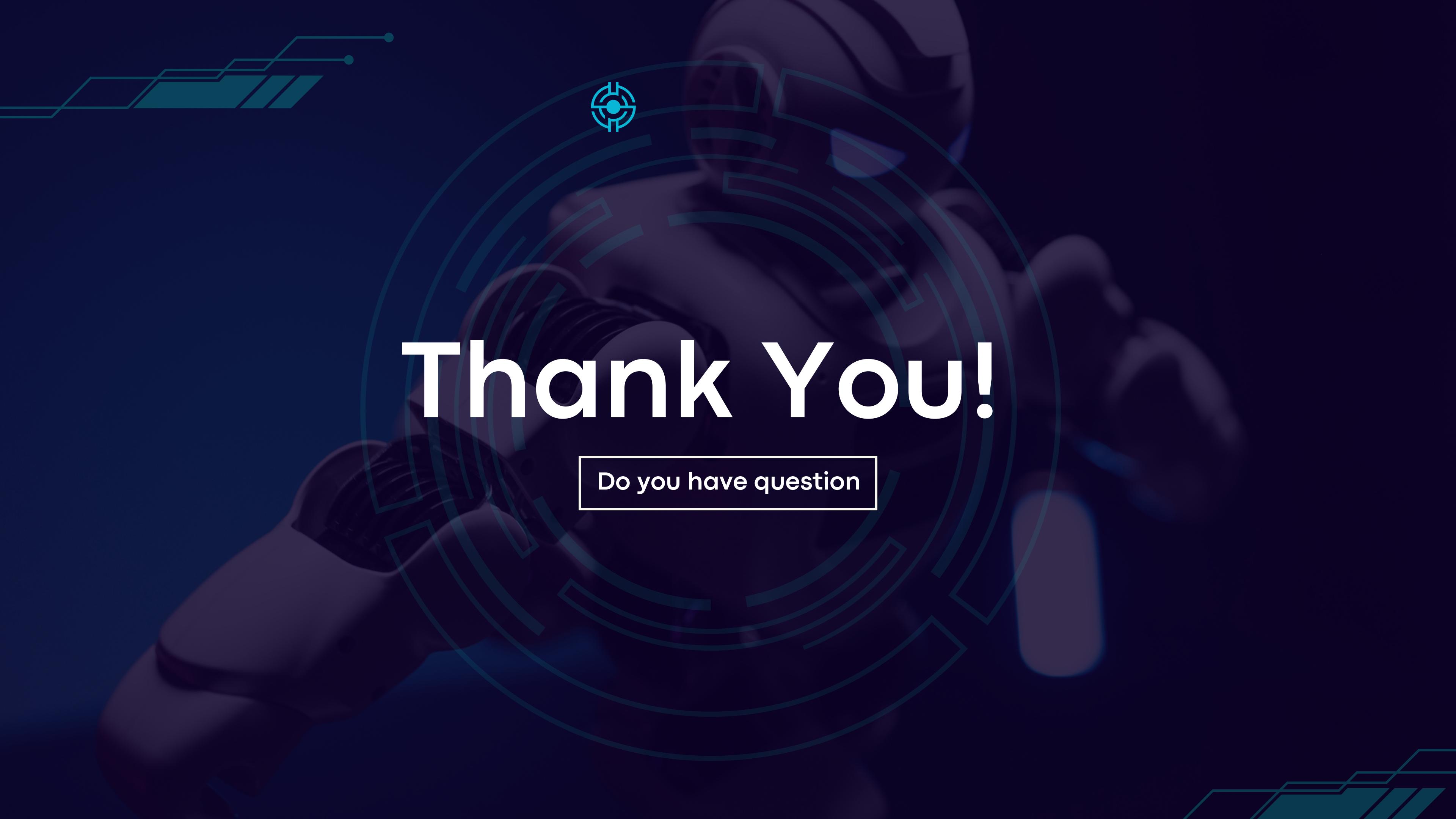
GUI

We present the results of our AI project, showcasing improvements in performance, efficiency, and decision-making compared to traditional methods. We also discuss the potential impact of our solutions on stakeholders and end-users.





Conclusion



Thank You!

Do you have question