Skill Wiser

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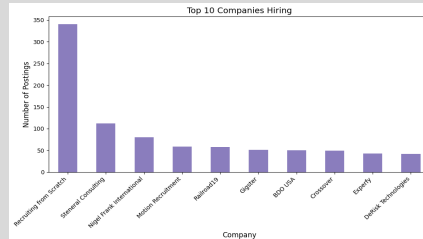Tushar   1002194530

01 Introduction

Project aims to identify and highlight the top 20 essential skills that are highly sought after across various industries in today's job market. It offers a dynamic tool where users can input a specific job role, and in return, the system will provide two closely related job roles along with the critical skills required for each. By offering these insights, the project seeks to help individuals better understand the skill sets needed for career development and navigate their professional growth effectively.
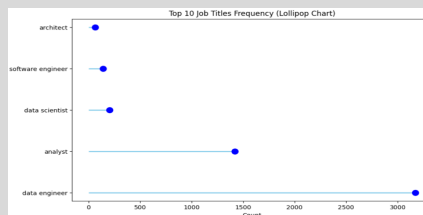
02 Tools Used

03 Visual Analysis of Model

The graph highlights the top 10 companies with the highest number of job postings, showcasing hiring trends in the market.
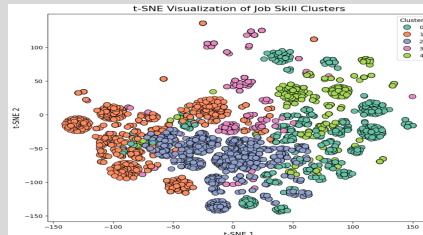

The word cloud visually represents the top 20 in-demand skills, with the size of each skill indicating its frequency in job postings.
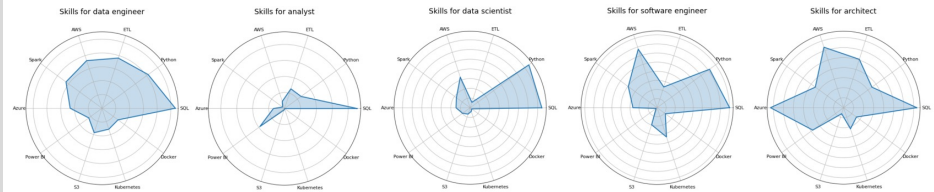

Lollipop chart visualizing the frequency of the top 10 job titles, highlighting their relative counts.
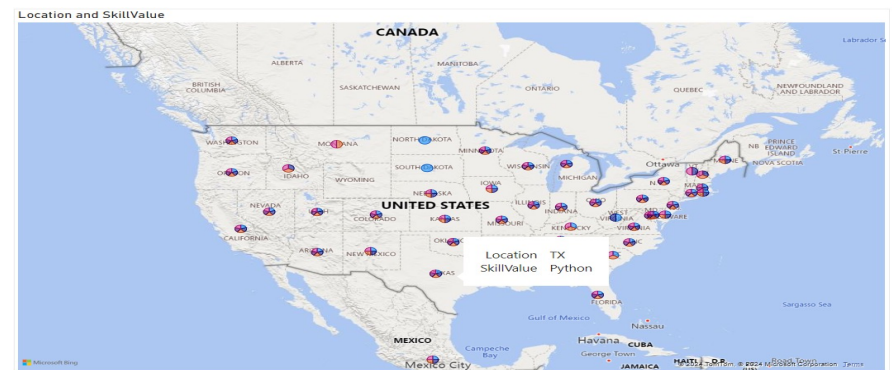

t-SNE visualization illustrating distinct job skill clusters based on reduced dimensionality.

Radar charts visualizing the skill distribution across the top 5 job titles, highlighting key skills required for each role.

Visualizing the most frequently used skills across different states on a map

Displays clustering evaluation metrics, including Silhouette Score and Calinski-Harabasz

Metric	Score
Silhouette Score	0.42
Calinski-Harabasz Index	213.45

04 Conclusion

Skills for data scientist: {'sql', 'aws', 'python', 'etl', 'azure'}

Top 2 similar job titles to data scientist:

data engineer:
Skills: {'sql', 'aws', 'python', 'etl', 'azure'}

analyst:
Skills: {'sql', 'power', 'etl', 'bi', 'azure'}

05 References

https://ijece.iaescore.com/index.php/IJECE/article/view/31326/17022
https://online-journals.org/index.php/i-jac/article/view/34779