



Stack Overflow Career Survey

Nayanika Kalita
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OUTLINE



- Executive Summary
- Introduction
- Methodology
- Results
 - Visualization – Charts
 - Dashboard
- Discussion
 - Findings & Implications
- Conclusion
- Appendix

EXECUTIVE SUMMARY



- Data contextualization and analysis goal
- Methodology
 - Data collection
 - Data analysis
 - Data visualization
- Results: analysis findings supported with graphs and trends
- Overall findings and implications
- Conclusion

INTRODUCTION



- Stack Overflow's annual Developer Survey is the largest and most comprehensive survey of people who code around the world.
- Results don't represent everyone in the developer community evenly.
- Nearly 90,000 developers.
- Trends to predict where the developers are going.
- Characterization of developers around the globe.

METHODOLOGY



- Collect survey data
 - Using API
 - Web Scrapping
- Data Wrangling
- Exploratory data analysis
- Data visualization
- Dashboard

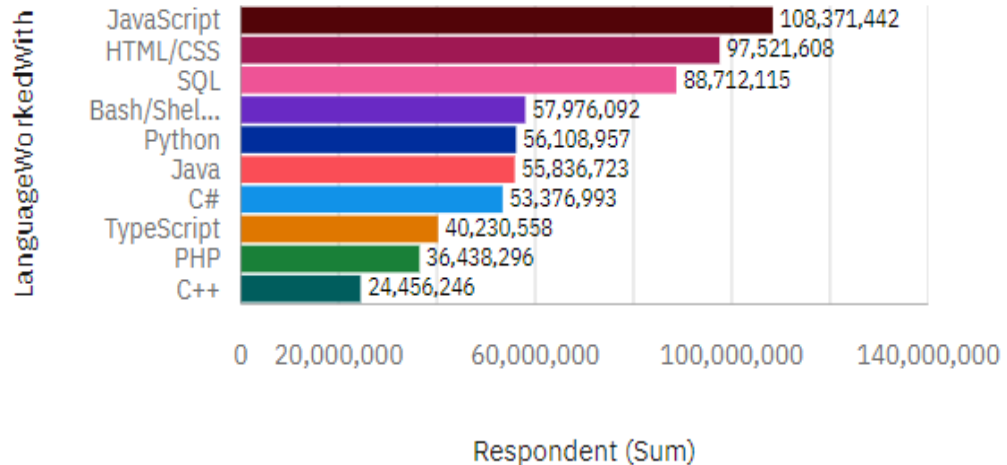
RESULTS



PROGRAMMING LANGUAGE TRENDS

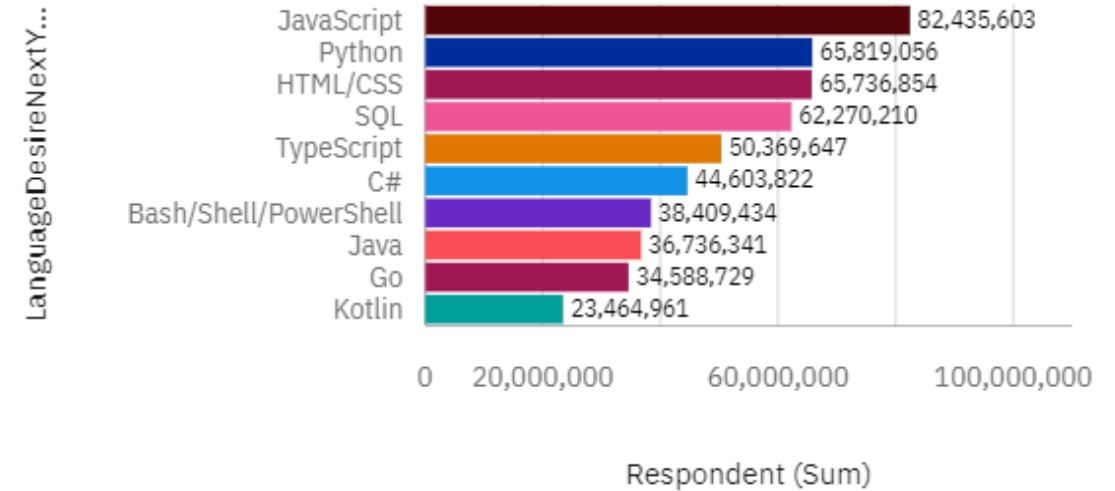
Current Year

Top 10 Language Worked With



Next Year

Top 10 Language Desire Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- JavaScript seems to keep as leading language.
- Python fastest-growing.
- Great interest in TypeScript.

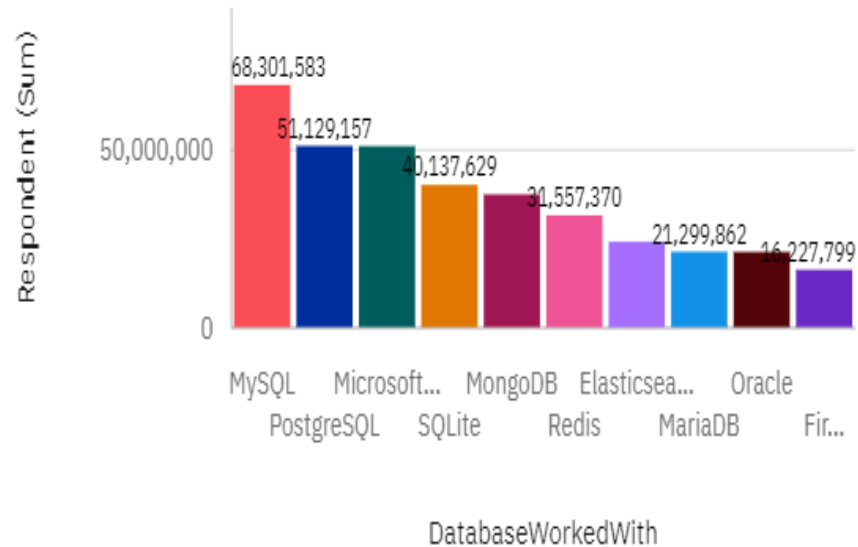
Implications

- Possible developers migration from JavaScript to Python.

DATABASE TRENDS

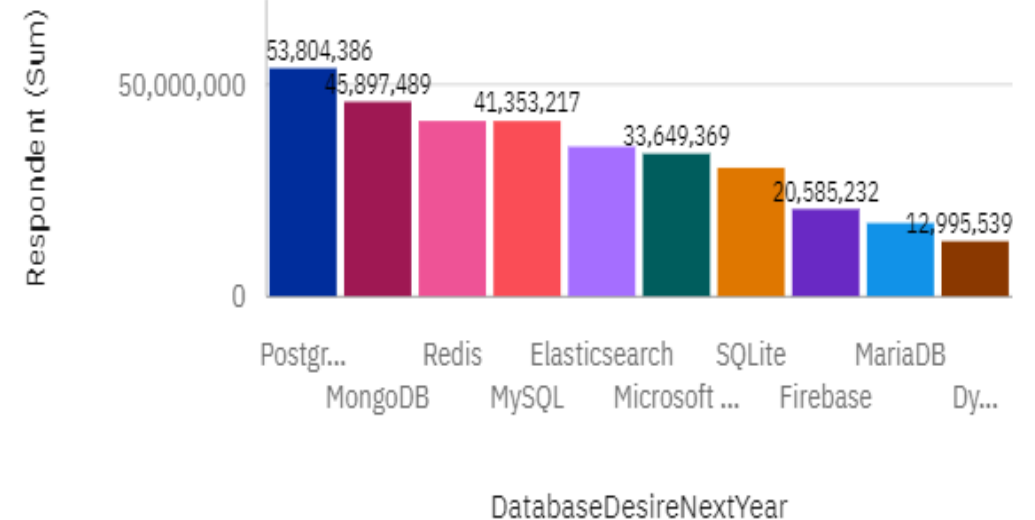
Current Year

Top 10 Database Worked With



Next Year

Top 10 Database Desire Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- MySQL as most used database.
- Lack of interest in Microsoft SQL Server and SQLite.
- Increasing interest in PostgreSQL and MongoDB.

Implications

- PostgreSQL and MongoDB establishment in the market.

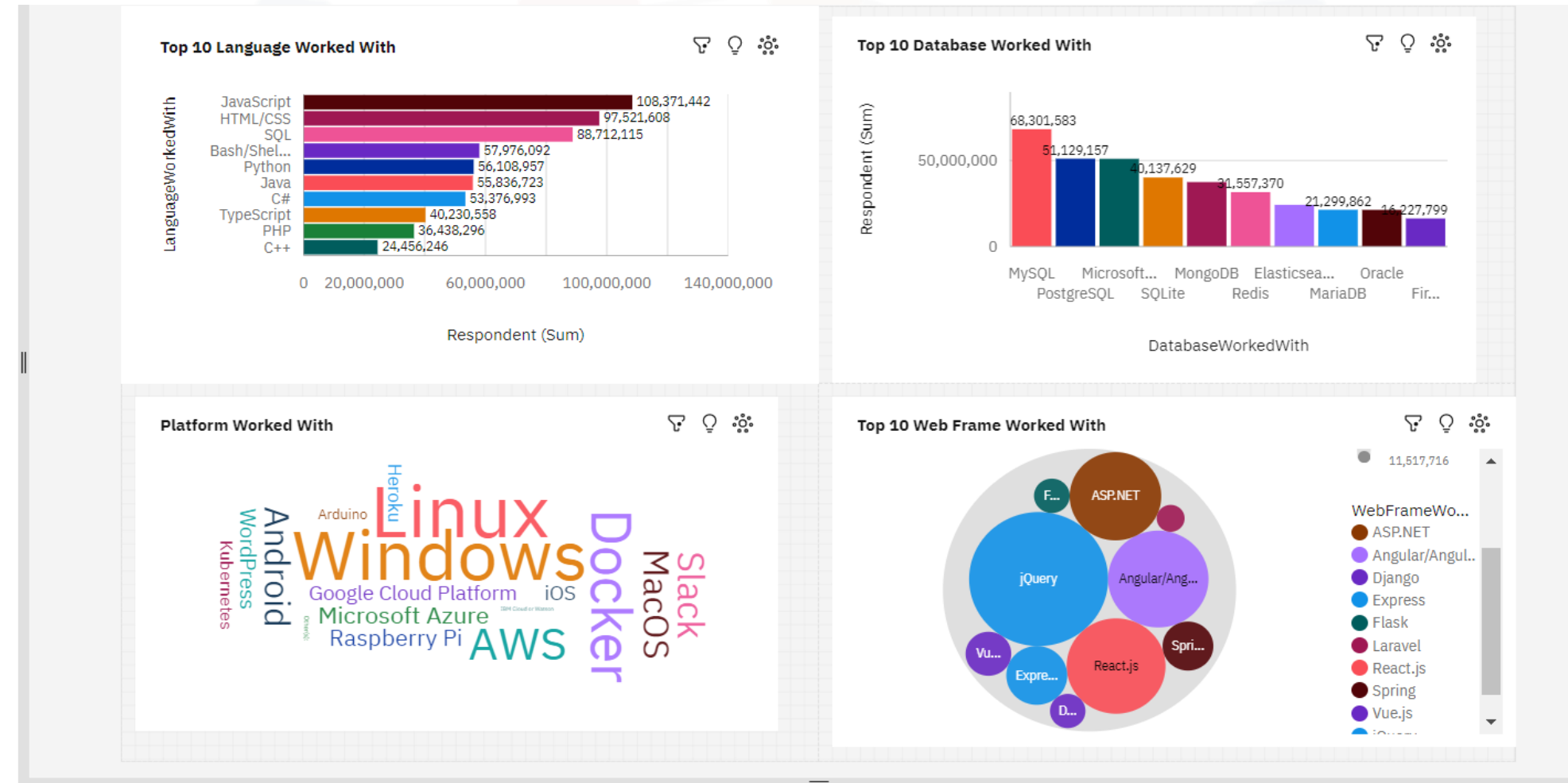
DASHBOARD



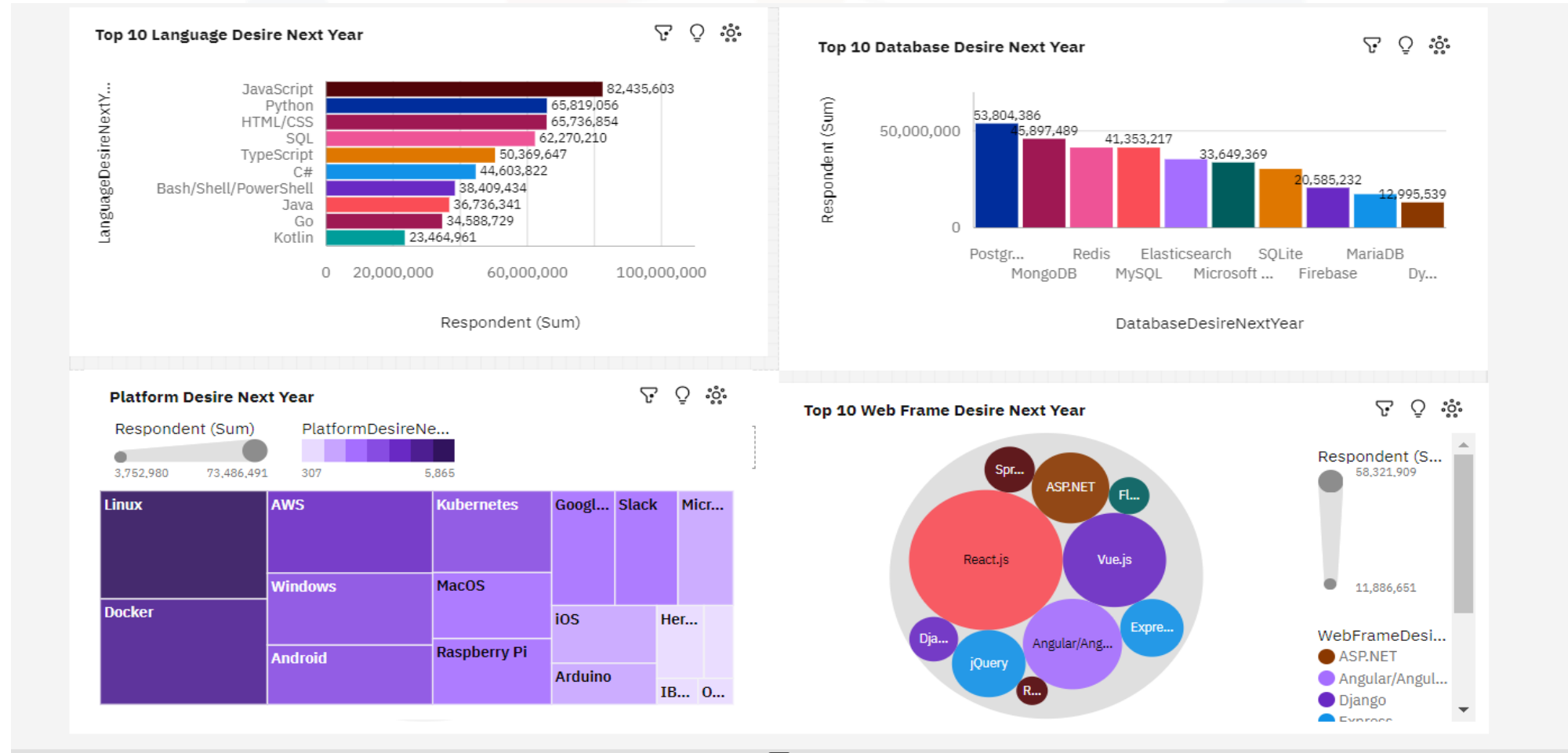
The GitHub link :

https://github.com/Nayanika0428/Data-Analytics-Projects/blob/main/IBM_DATA_ANALYST_CAPSTONE_PROJECT/IBM_cognos_dashboard.pdf

DASHBOARD TAB 1: Current technology usage



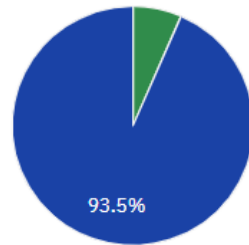
DASHBOARD TAB 2:Future technology trend



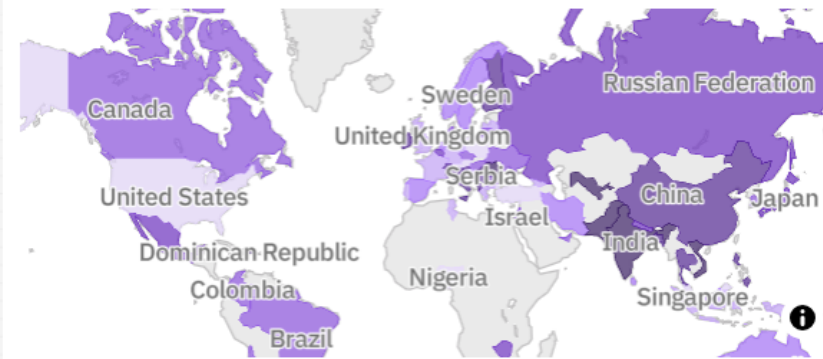
DASHBOARD TAB 3: Demographics

Respondent classified by Gender

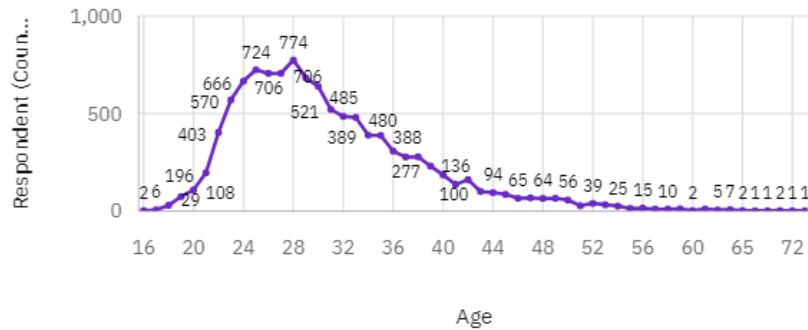
Gender
● Woman ● Man



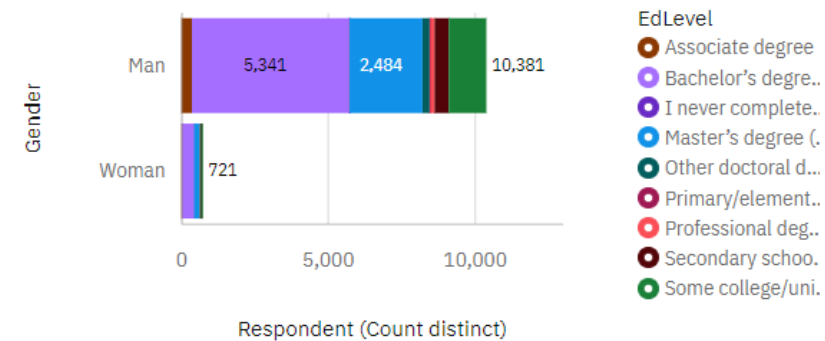
Respondent Count for Countries



Respondent by Age



Respondent Count by Gender, classified by Formal Education Level



DISCUSSION



OVERALL FINDINGS & IMPLICATIONS

Findings

- JavaScript widely used and Python getting popular.
- Over 90% developers are male.
- Developers mostly located in developed countries.

Implications

- Global polarization of developers location and gender.
- Young developers without postgrad studies on its majority.

CONCLUSION

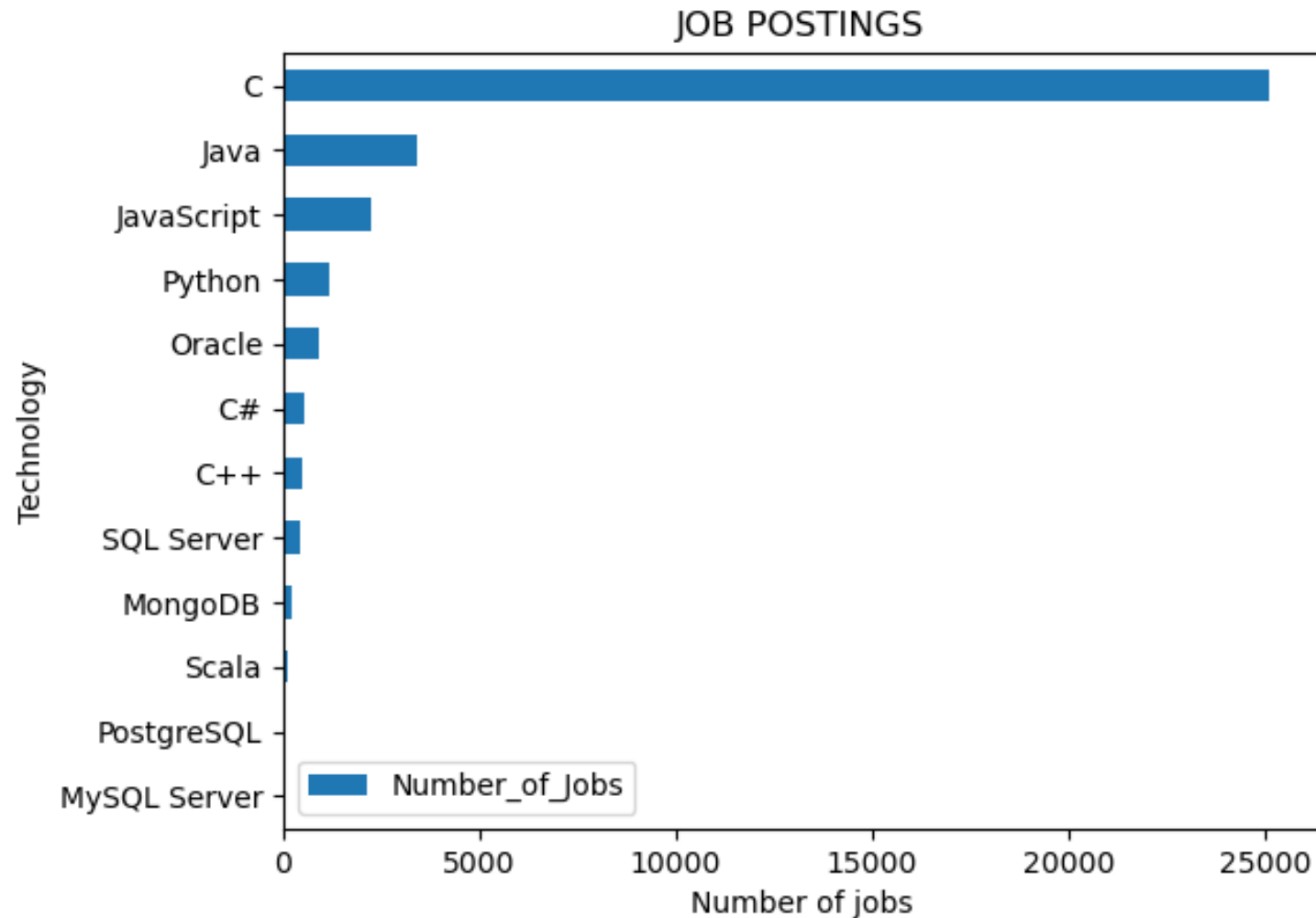


- A good idea of popularity trends of different tools, platforms and languages can be obtained.
- Most popular language is JavaScript.
- Python is a language that is gaining popularity really quick.
- MySQL and PostgreSQL is the most popular database language

APPENDIX



JOB POSTINGS



POPULAR LANGUAGES

