Stack Overflow Developer Survey-2019 Finding & Implication

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OUTLINE

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EXECUTIVE SUMMARY

Current Technology Uses

- Top 10 language worked With

- Top 10 Database Worked with

- Platform Worked With

- Top 10 Web Frame Worked With

Future Technology Trend

- Top 10 Language Desire Next Year

- Top 10 Database Desire Next Year

- Platform Desire Next Year

- Top 10 Web Frame Desire Next Year

Demographics

- Respondent Classify By Gender

- Respondent Count For Country

- Respondent Count By Age

- Respondent Count By Gender ,Classified by Formal Education Level

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INTRODUCTION

- The Top Programing Language in Demand

- The Top Database Skill in Demand

- The popular IDE

- Correlation Between Numerical Data

- Scarping internet web sites and accessing APIs to collect data.

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METHODOLOGY

- **Collecting Data Using APIs**
    - The GitHub Jobs APIs allows us to search, and view jobs with JSON over HTTP.
    - GitHub Jobs API allows anyone to query for the jobs based upon:
        - Technology like Python, MySQL
        - City Like New York, Bangalore
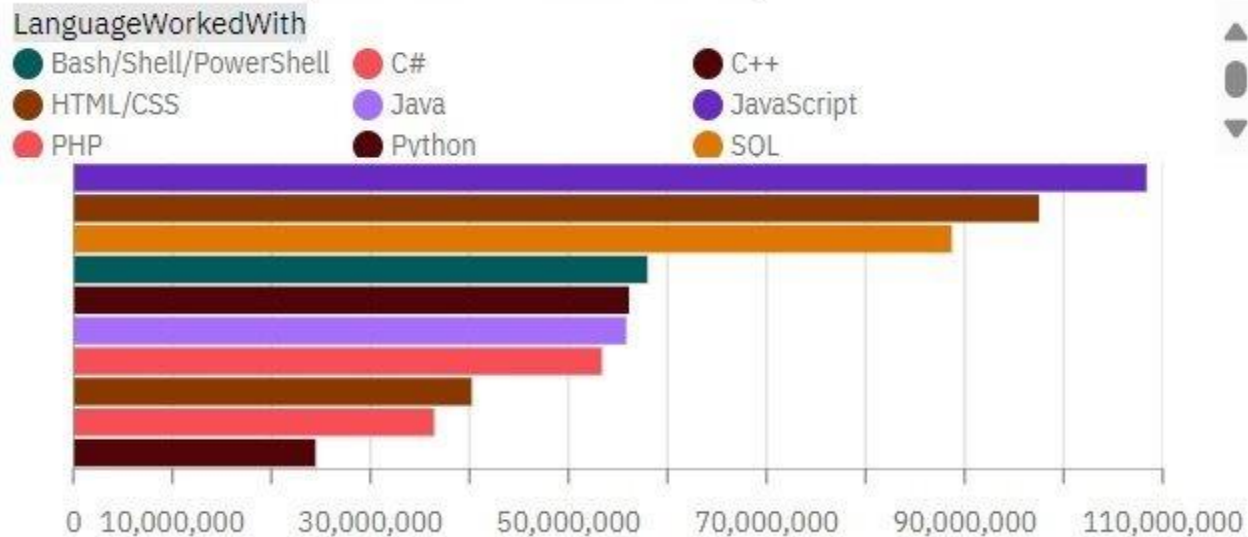
- **Collecting Data Using Webscrping**

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RESULTS: GENDER, AGE & SALARY

- The respondents had a median age of 29 and median annual salary of US$52,704.

- There is a high gender gap between the men and women respondents (93.5% of men vs. 6.5% of women).

- However, the median salary of women (US$54,956) is slightly higher than men (US$52,339).

- Age and annual USD salary were positively correlated (r = 0.40).

- The regplot showed that the increase in age will follow by the rise in the median annual USD salary.

PROGRAMMING LANGUAGE TRENDS

Current Year

Next Year

PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- JavaScript is the most popular language to use in current and also in future.

- HTML/CSS is the second most popular language to use in current and also in future.
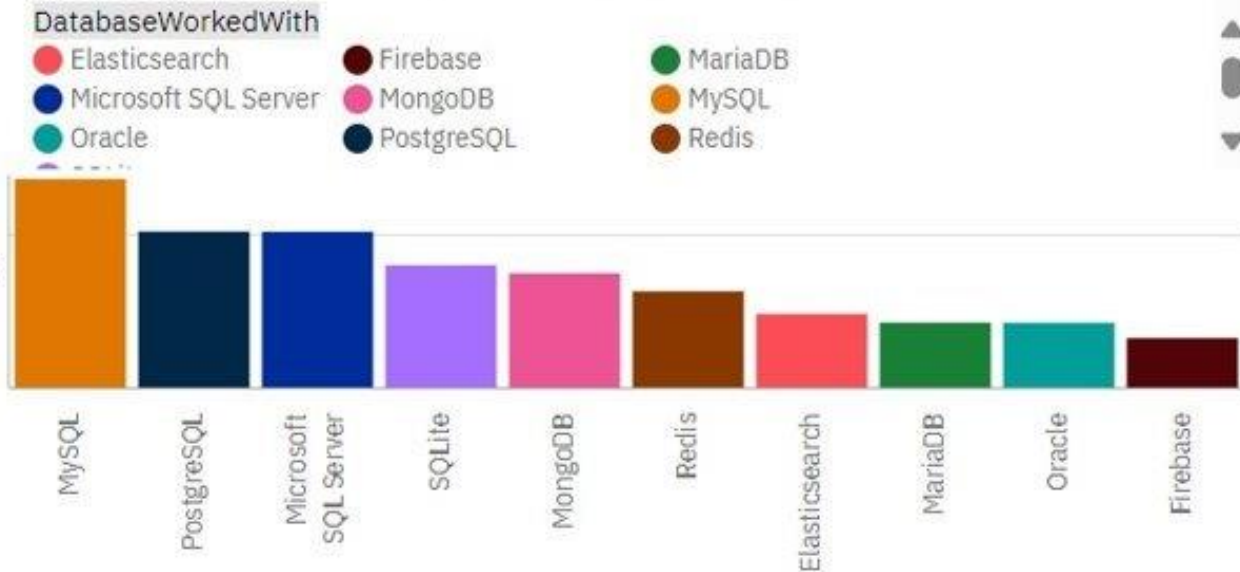
- Python has the rising trend.

Implications

- JavaScript and HTML/CSS both have demand in current and future trend.

- Python is the new thread for near future and need to be focused on that.

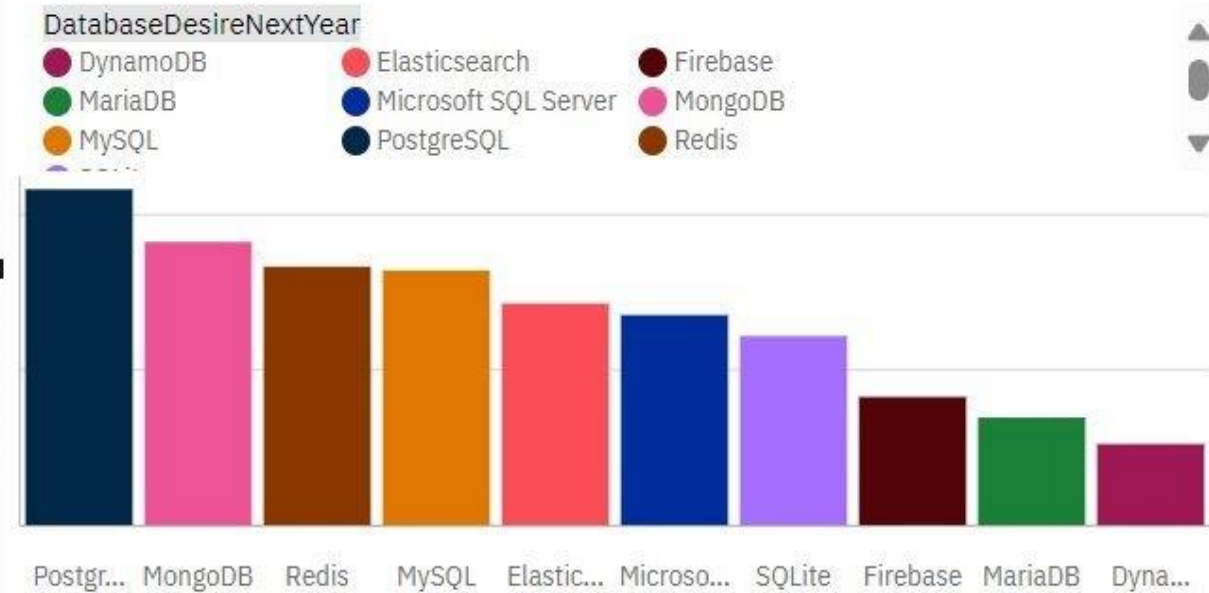- Java, c#, c++ have lost their momentum. People are looking for other language apart from them.

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DATABASE TRENDS

Current Year

Next Year

DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- RDMBS has the dominant trend in current usage.

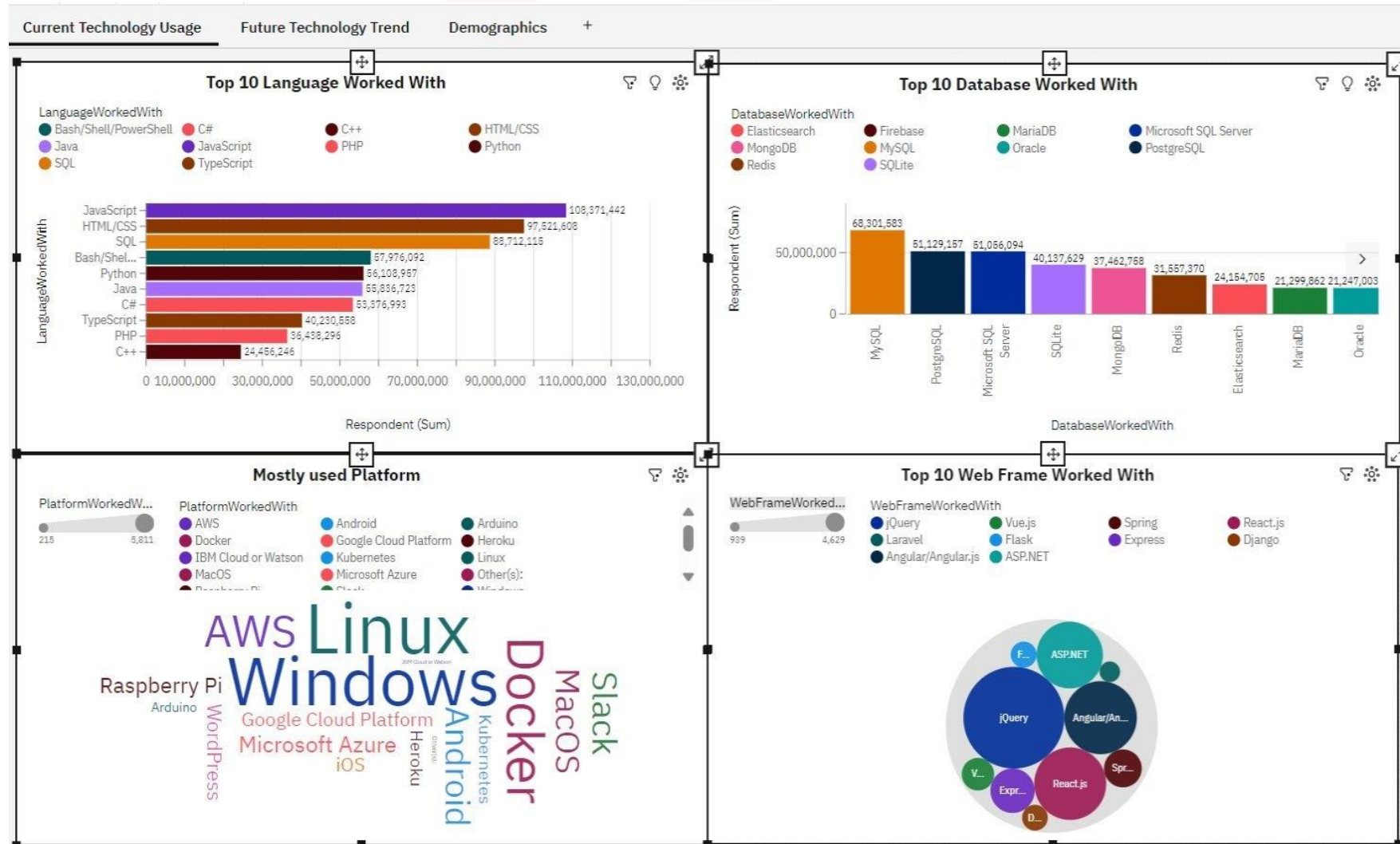- Now RDBMS have the dominant trend in future.

Implications

- People are highly interested to learn non-relational database.

- It is clear that big data will become very popular in upcoming year.

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DASHBOARD

https://github.com/Kumariarti09/final-repo/blob/main/Final%20Capstone%20Project%20dashboard%20by%20congo%20Analytics.pdf
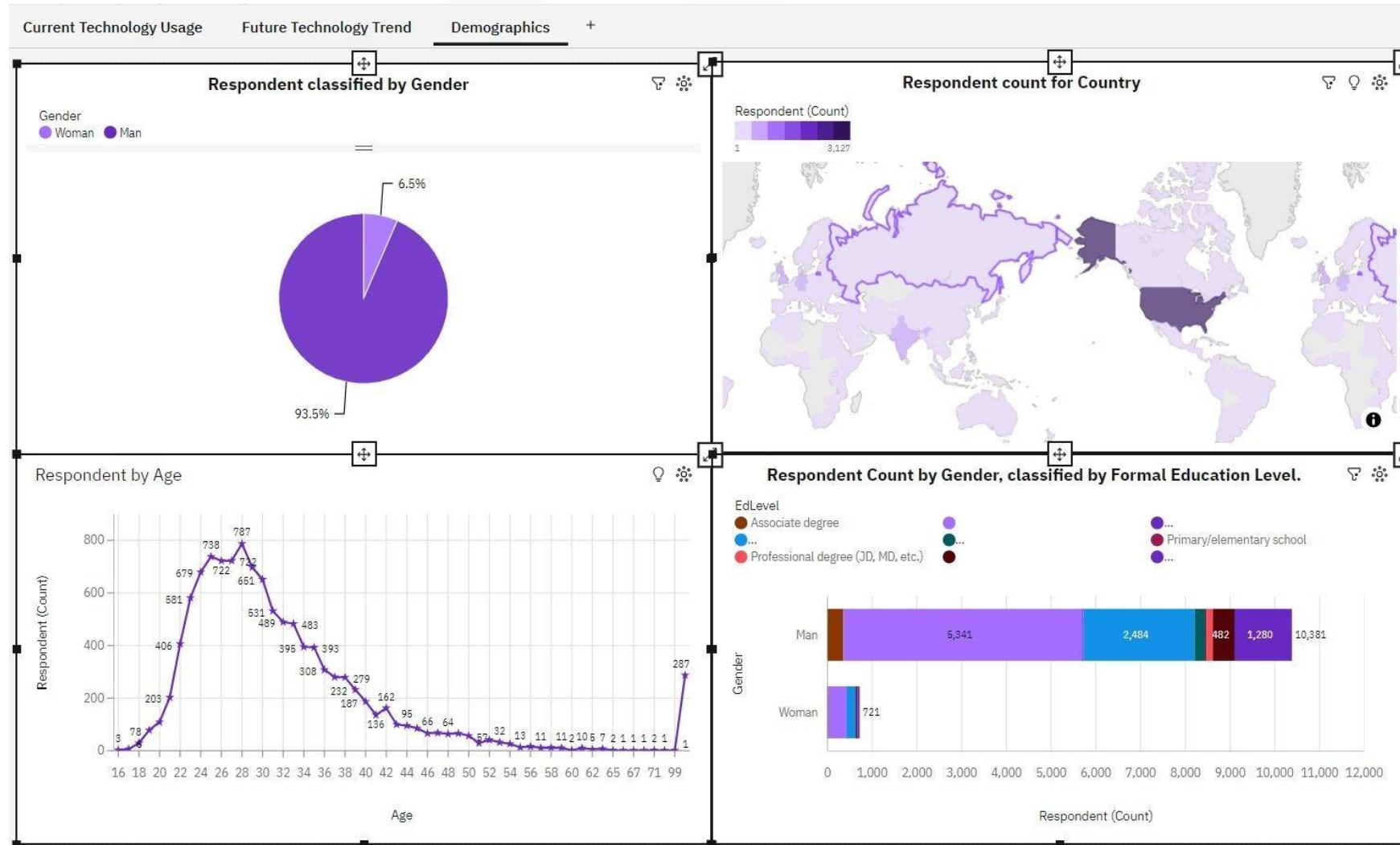
DASHBOARD TAB 1

DASHBOARD TAB 2

DASHBOARD TAB 3

DISCUSSION

- It is clear from previous study that, the upcoming future is for big data so the knowledge on big data along with advanced programming languages will make the differences.

OVERALL FINDINGS & IMPLICATIONS

Findings

- The upcoming programming trend is for advanced programming languages.

- The upcoming trend for database is non-relational databases.

Implications

- People are looking for advanced programming languages along with easy learning.

- People are looking for big data cause data is every where.

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CONCLUSION

- The top programming languages in demand
- The top database skills in demand
- The popular IDEs
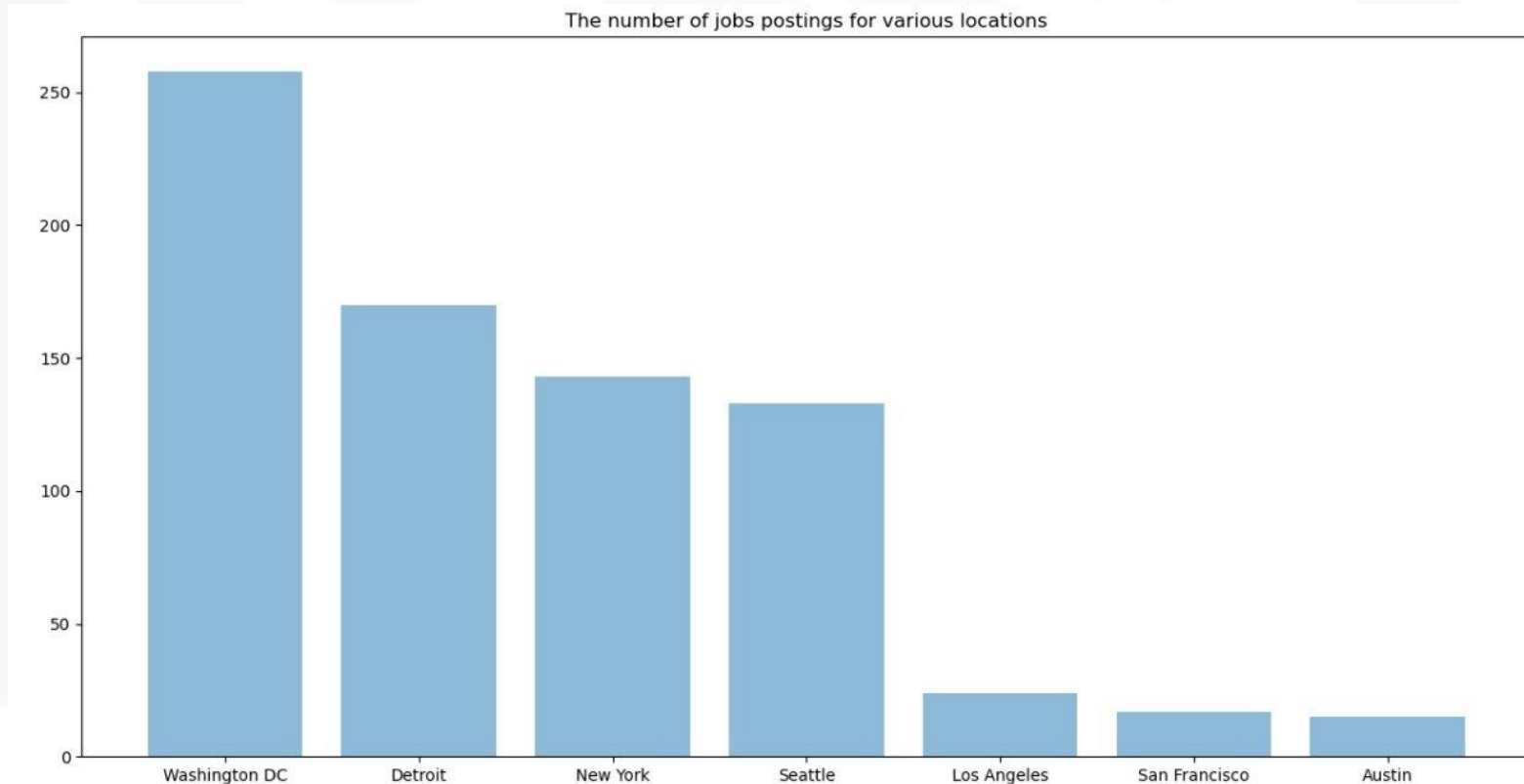- Scraping internet web sites and accessing APIs to collect data.

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APPENDIX

- Include any relevant additional charts, or tables that you may have created during the analysis phase.

JOB POSTINGS

In Module 1 you have collected the job posting data using Job API in a file named "job-postings.xlsx". Present that data using a bar chart here. Order the bar chart in the descending order of the number of job postings.

The number of jobs postings for various locations

POPULAR LANGUAGES

In Module 1 you have collected the job postings data using web scraping in a file named "popular-languages.csv". Present that data using a bar chart here. Order the bar chart in the descending order of salary.

Programming Language