STACK OVERFLOW DEVELOPER SURVEY 2019

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OUTLINE

- Executive Summary

- Introduction

- Methodology

- Results
  - Visualization –Charts
  - Dashboard

- Discussion
  - Findings & Implications

- Conclusion

- Appendix

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EXECUTIVE SUMMARY

- Data contextualization and analysis goal.

- Methodology description.

  - Data gathering.
    - Data analysis.
    - Data visualizations.

- Results presentation supported with graphs and trends.

- Discussion of overall findings and implications regarding the results previously exposed.

- Final conclusions of the carried out research.

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 & explore its content
  - Web Scraping
  - APIs.
  - Request library.
- Data Wrangling
- Exploratory data analysis
  - Analyzing data distribution.
  - Handling outliers.
  - Correlations.
- Data Visualization
  - Highlight distribution of data, relationships, the composition and comparison of data.
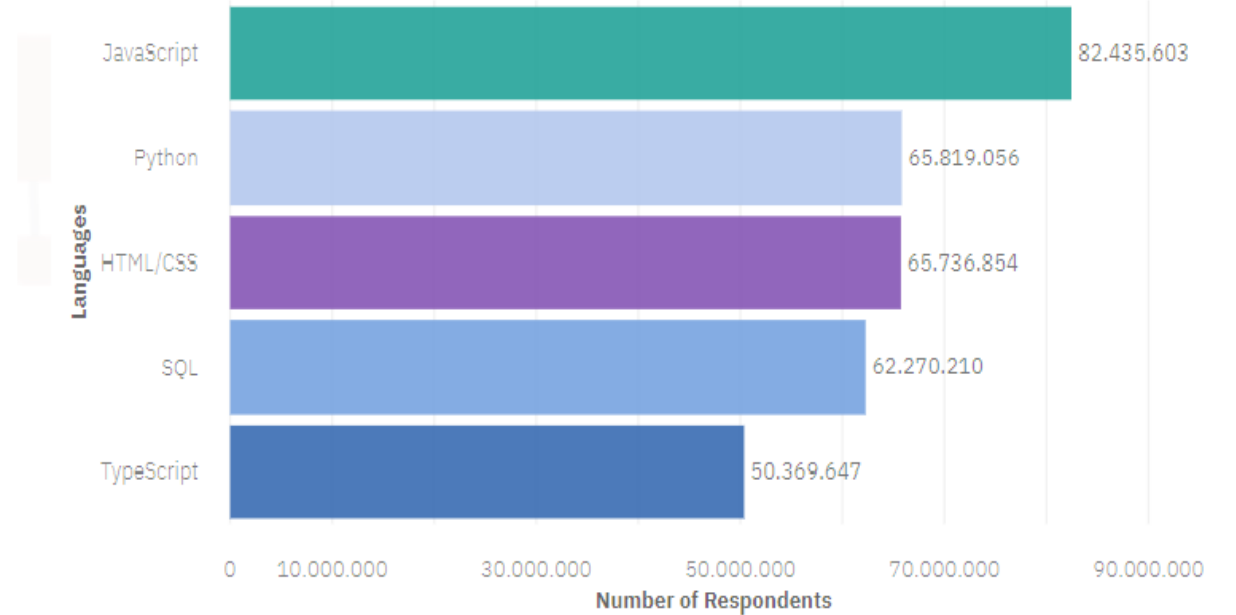- Dashboards

RESULTS

PROGRAMMING LANGUAGE TRENDS

Current Year

Next Year

PROGRAMMING LANGUAGE TRENDS -FINDINGS & IMPLICATIONS

Findings

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

Implications

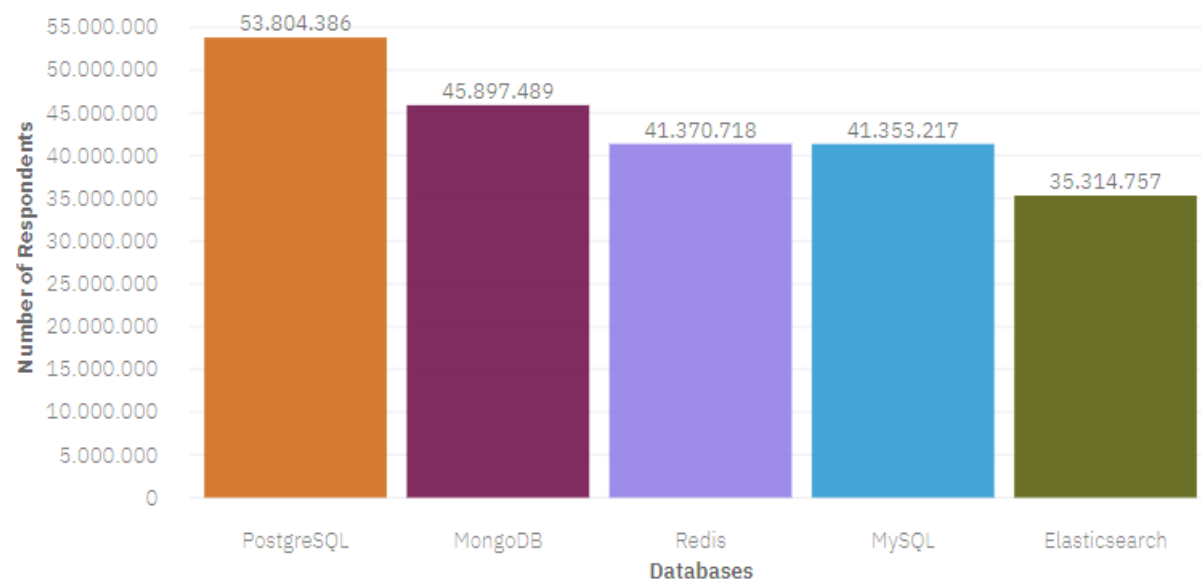- Possible developers migration from JavaScript to TypeScript.

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DATABASE TRENDS

Current Year

Next Year

Top 5 Databases Worked with

Top 5 Desired Database to Learn

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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

- Microsoft SQL Server and SQLite losing ground in the market.
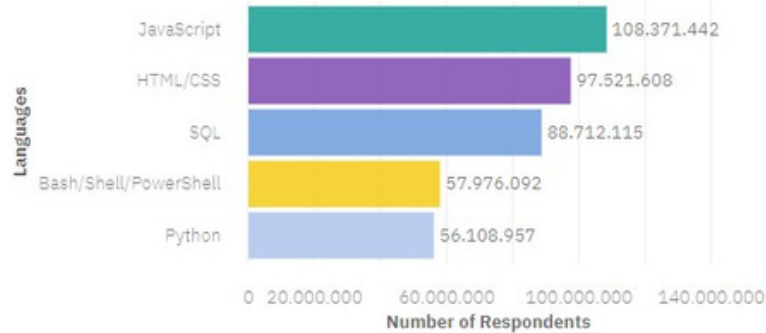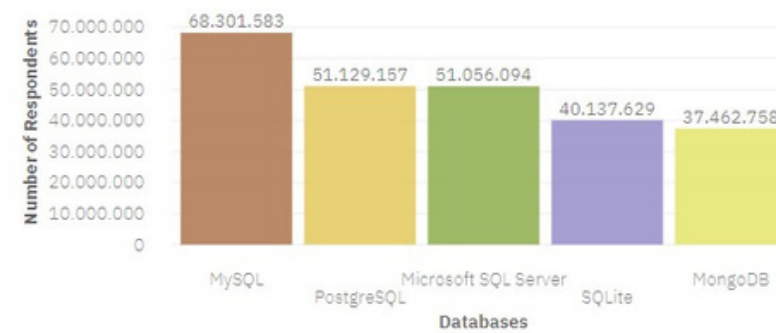
- PostgreSQL and MongoDB establishment in the market.

DASHBOARD

https://github.com/Farzam1372/Applie
d-Data-Analyst-Capstone-
IBM/blob/main/Dashboard-with-
Cognos-Dashboard%20week%205.pdf

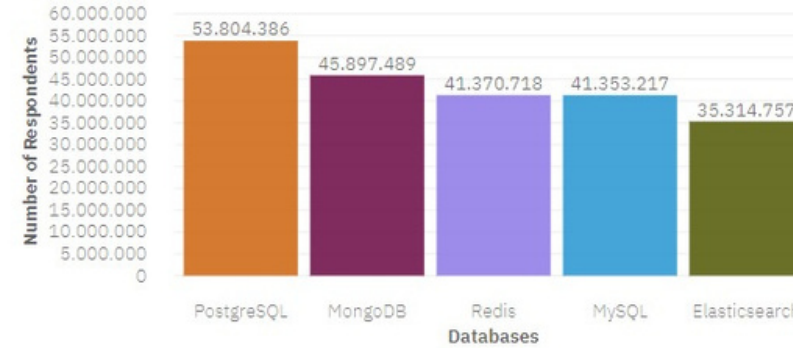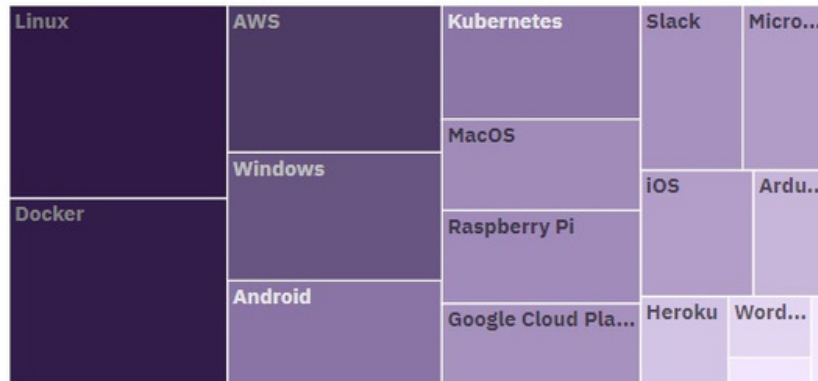# CURRENT TECHNOLOGY USAGE

FUTURE TECHNOLOGY TREND

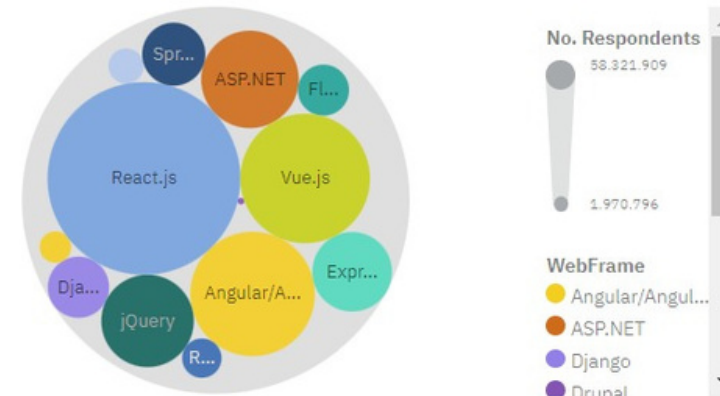Top 5 Desired Language to Learn
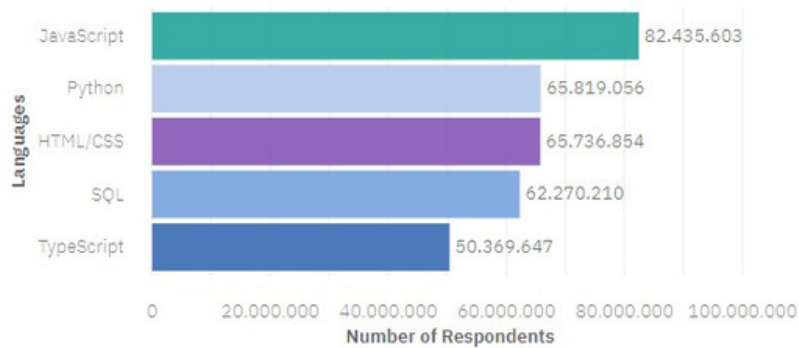
Top 5 Desired Database to Learn

Platform Next Year

Top 10 WebFrame Next Year

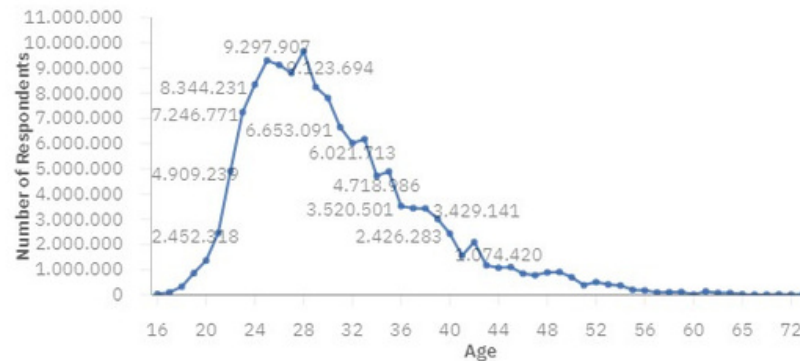# DEMOGRAPHICS
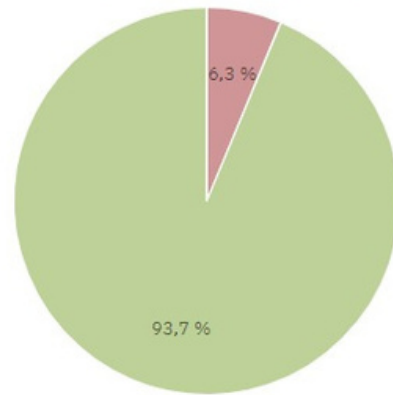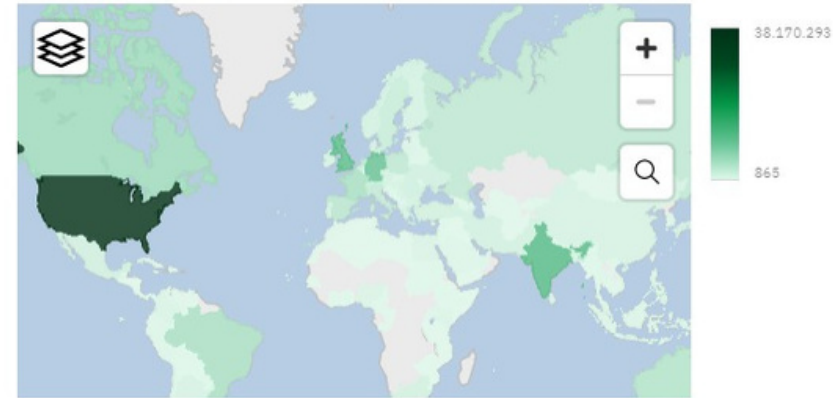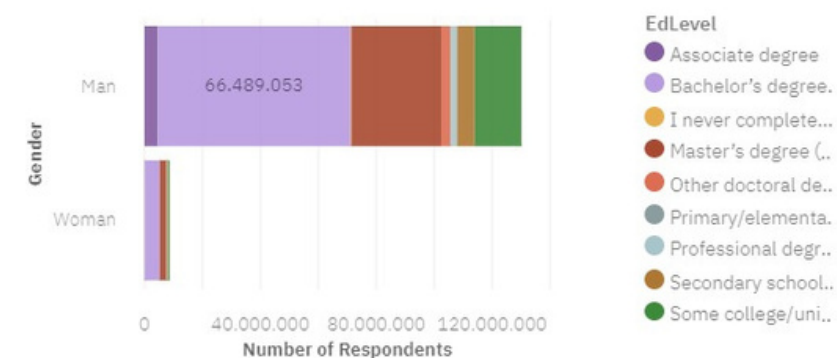
DISCUSSION

OVERALL FINDINGS & IMPLICATIONS

Findings

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

Implications

- JavaScript and TypeScript web frames gaining followers.
- Global polarization of developers location and gender.
- Young developers without postgrad studies on its majority.
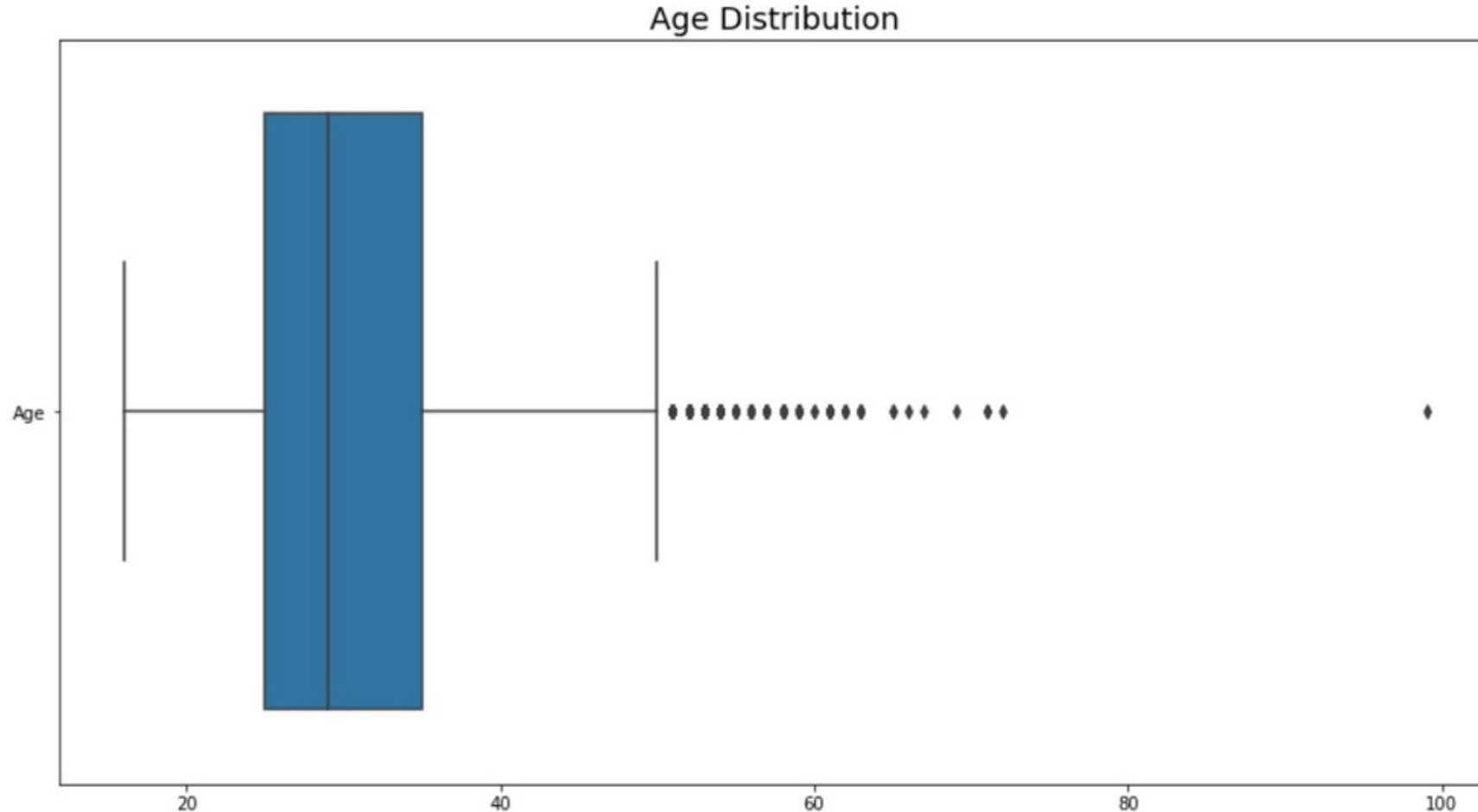
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CONCLUSION

• Developers are people with very marked characteristics.

• A good idea of popularity trends of different tools, platforms and languages can be obtained.

• There is a job to be done to spread accessibility of this labor market to countries in development.
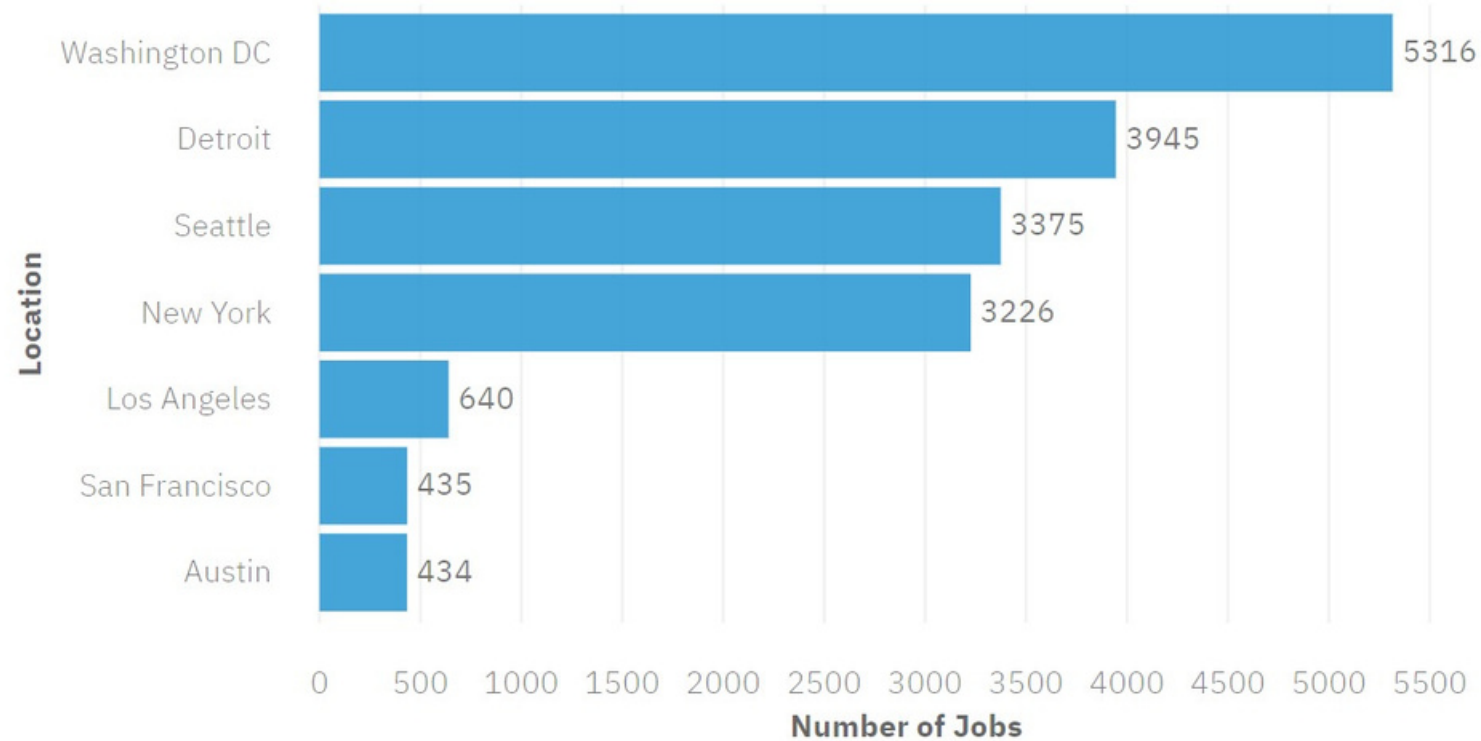
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APPENDIX

AGE DISTRIBUTION BOXPLOT

JOB POSTINGS

POPULAR LANGUAGES