



STACK OVERFLOW DEVELOPER SURVEY 2019

SINCHANA
23/06/24

IBM Developer

SKILLS NETWORK 

OUTLINE



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

EXECUTIVE SUMMARY



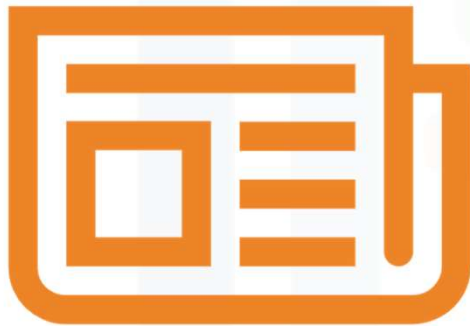
- Data contextualization and analysis goal
- Methodology description
 - Data Gathering
 - Data Analysis
 - Data Visualizations
- Results presentation supported with graphs and trends
- Discussion of overall findings and implications regarding the results previously exposed
- Final conclusions of the 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
- Characterization of developers around the globe
- Nearly 90,000 developers
- Visualizations to predict where the developers are headed

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

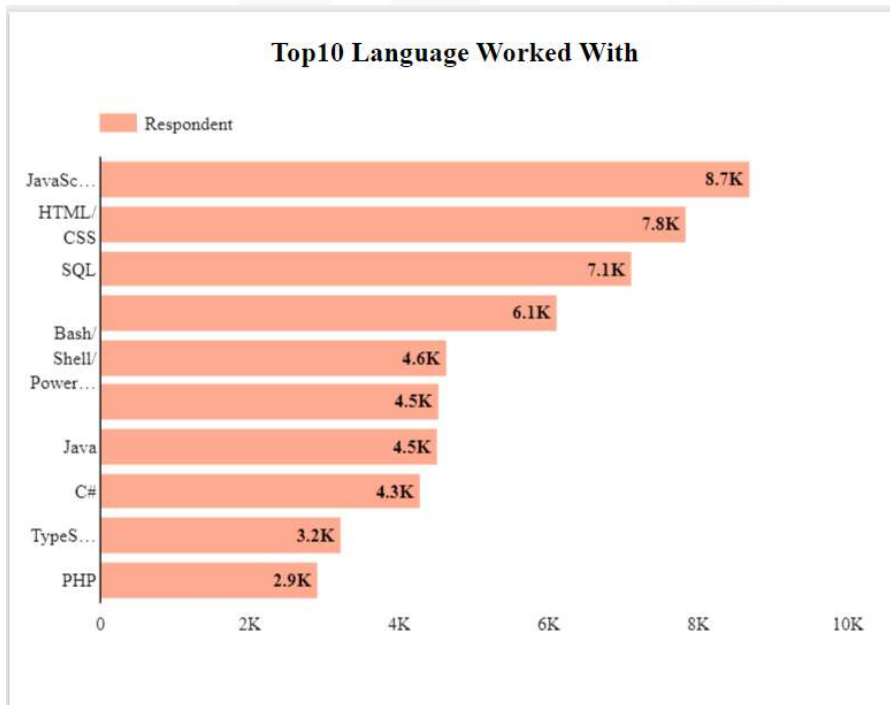


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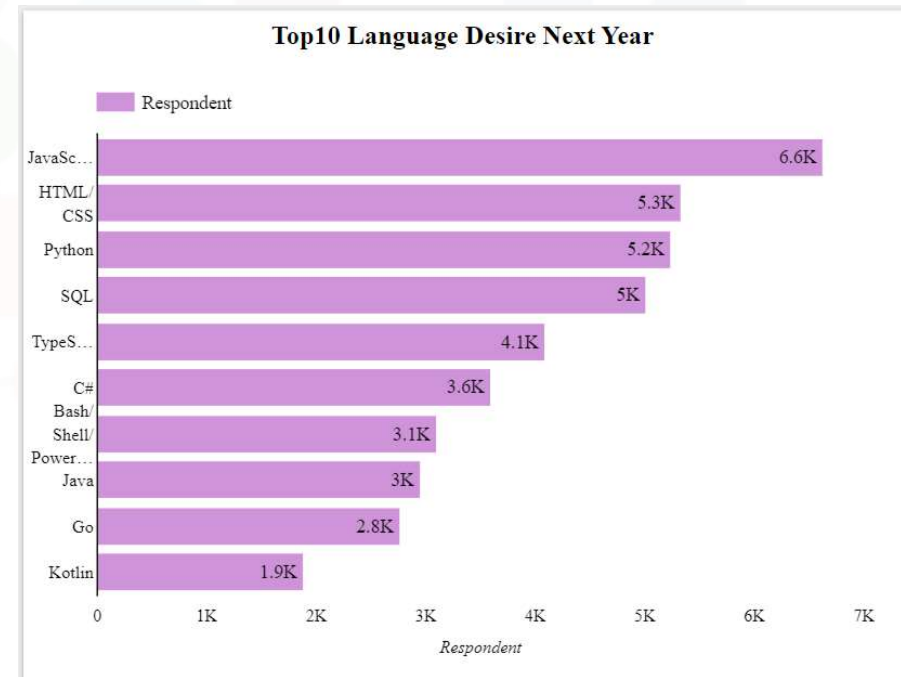
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PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

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

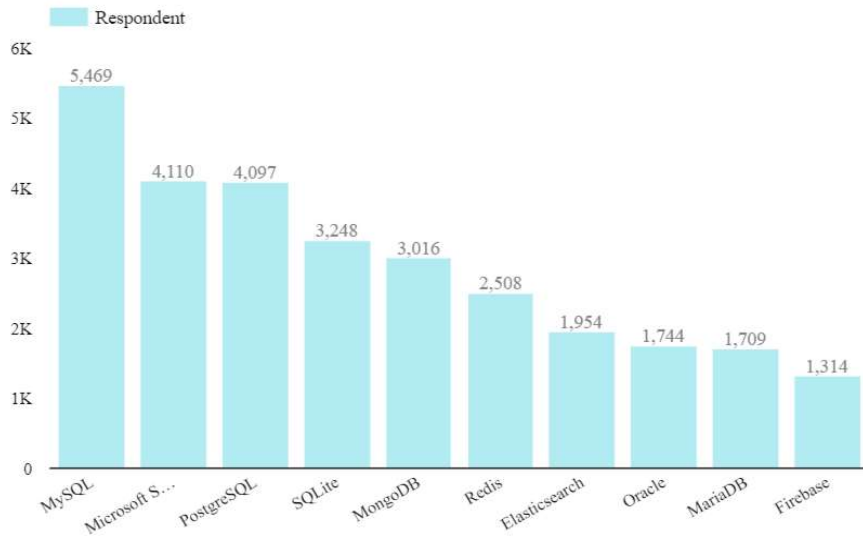
Implications

- Possible developers migration from JavaScript to TypeScript

DATABASE TRENDS

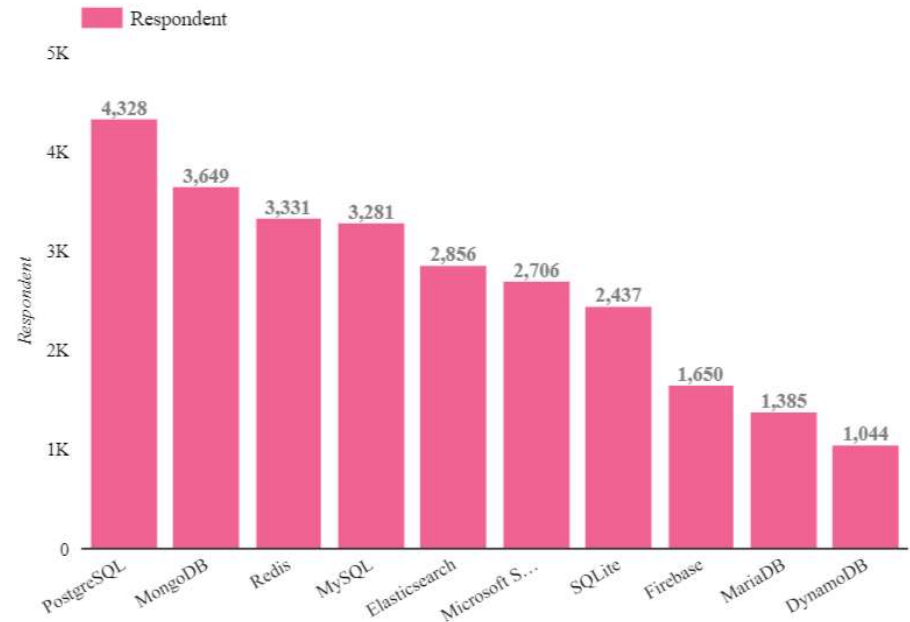
Current Year

Top10 Database Worked With



Next Year

Top10 Database Desire Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

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

Implications

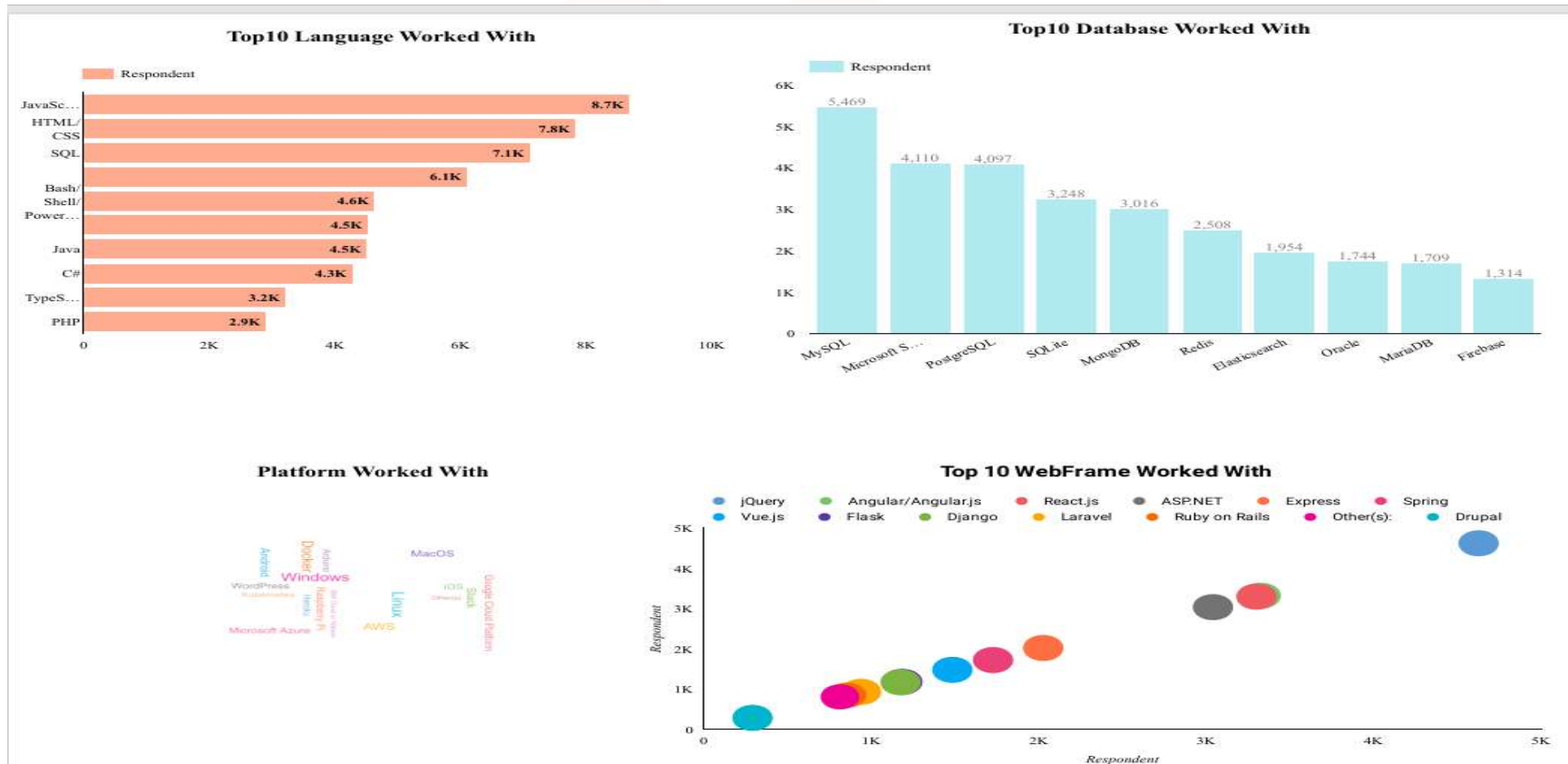
- Microsoft SQL Server and SQLite losing ground in the market
- PostgreSQL and MongoDB establishment in the market

DASHBOARD

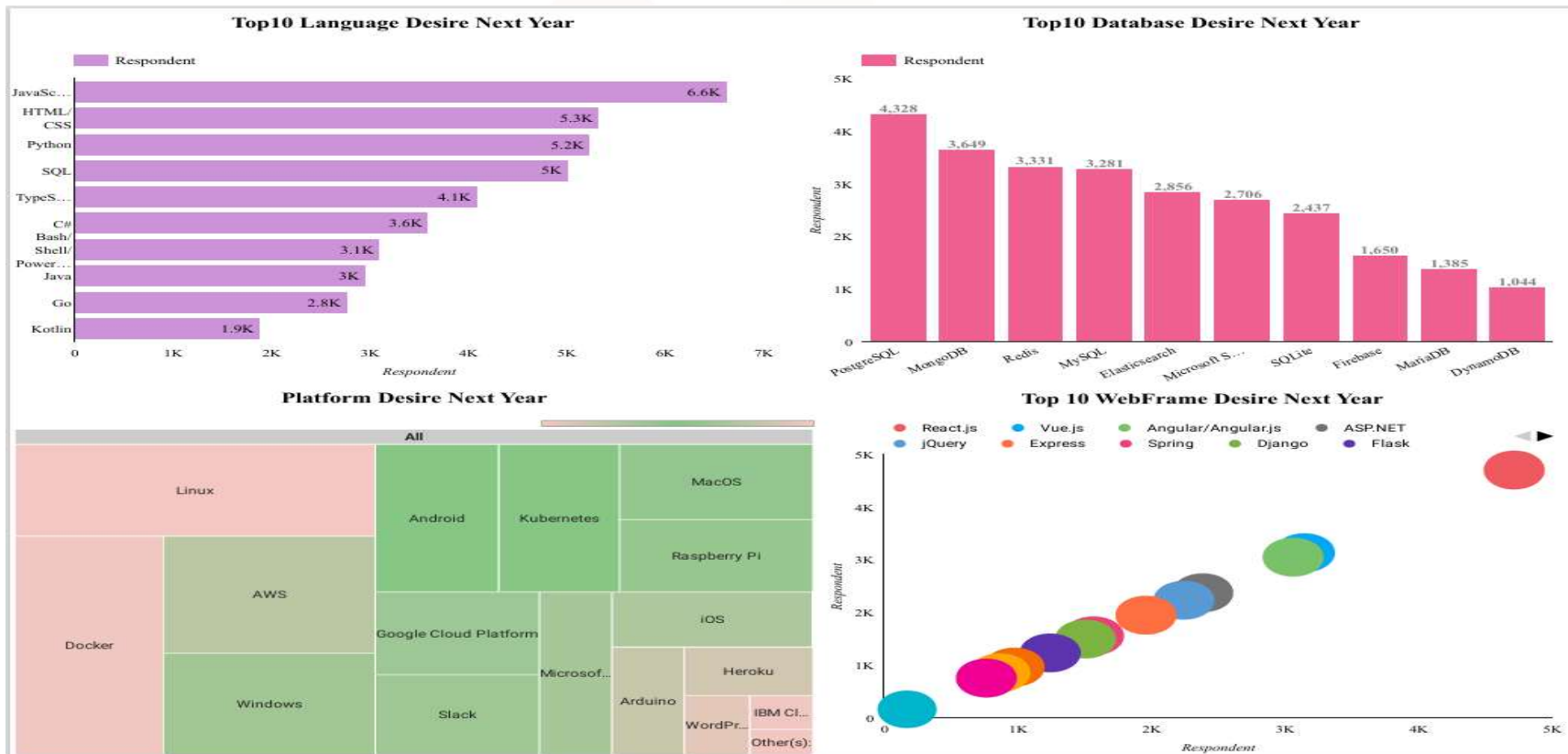


<https://github.com/SinchanaPoojary6/IBM-Data-Analyst-Capstone-Project/blob/main/6-Dashboards-with-Google-Looker-Studio.pdf>

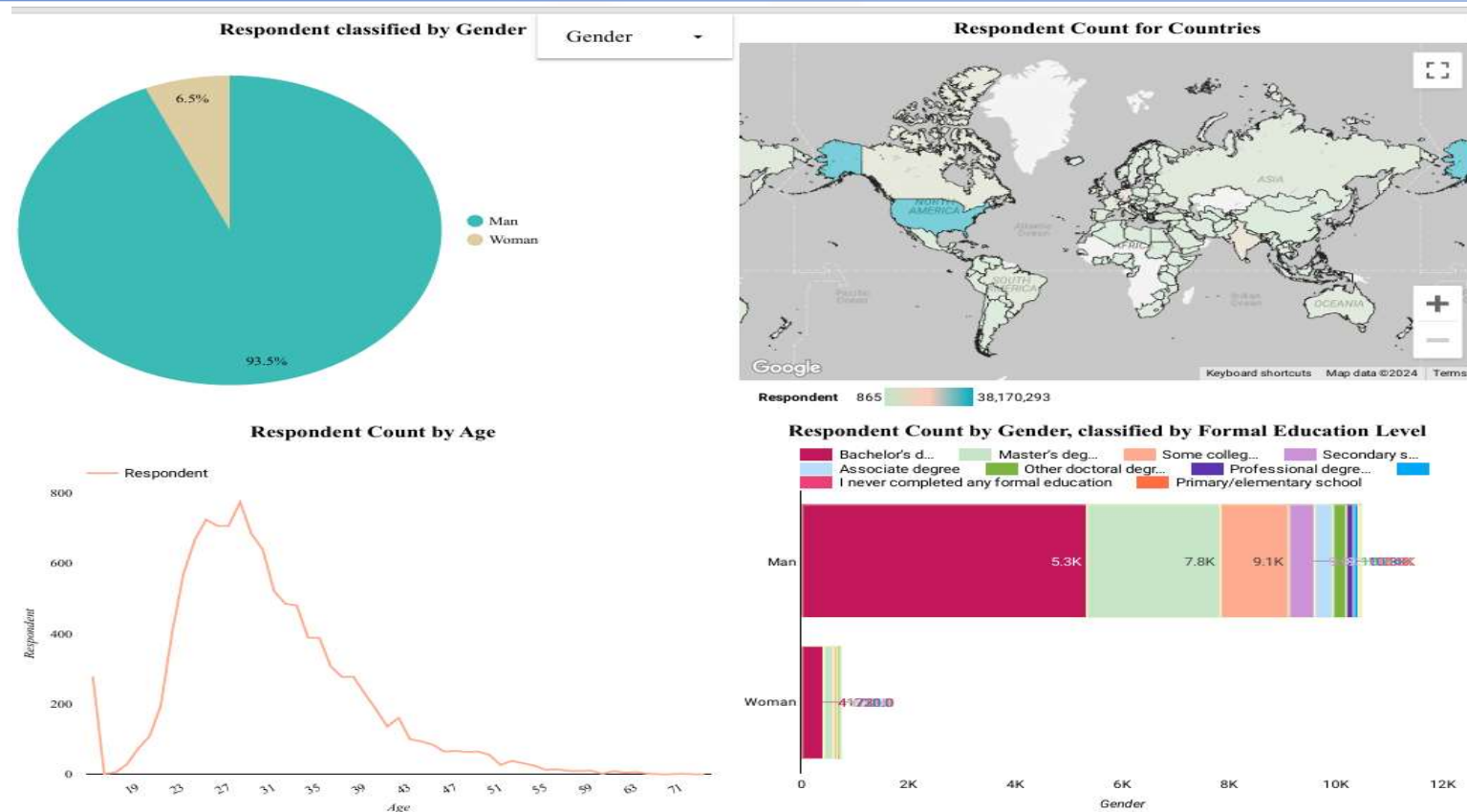
CURRENT TECHNOLOGY USAGE



FUTURE TECHNOLOGY TREND



DEMOGRAPHICS



DISCUSSION



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OVERALL FINDINGS & IMPLICATIONS

Findings

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

Implications

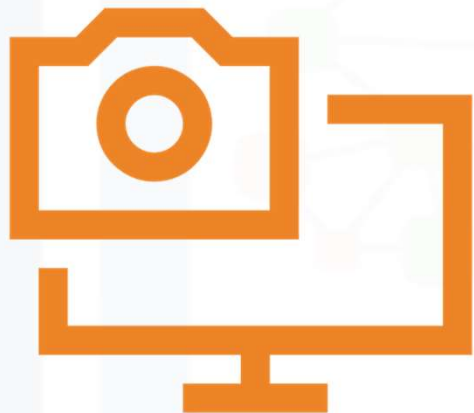
- JavaScript and TypeScript web frames gaining followers
- Global polarization of developers location and gender
- Young developers without postgrad studies on its majority

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 developing countries

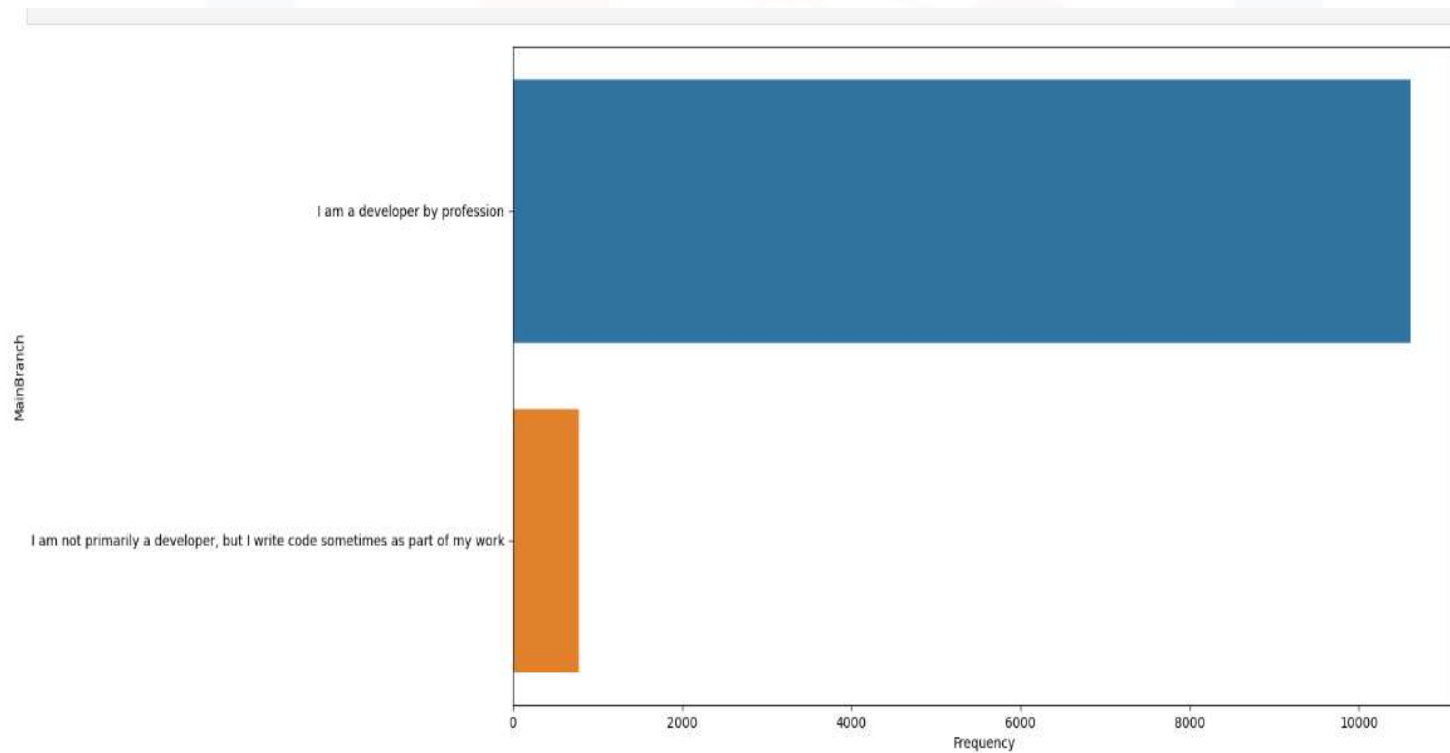
APPENDIX



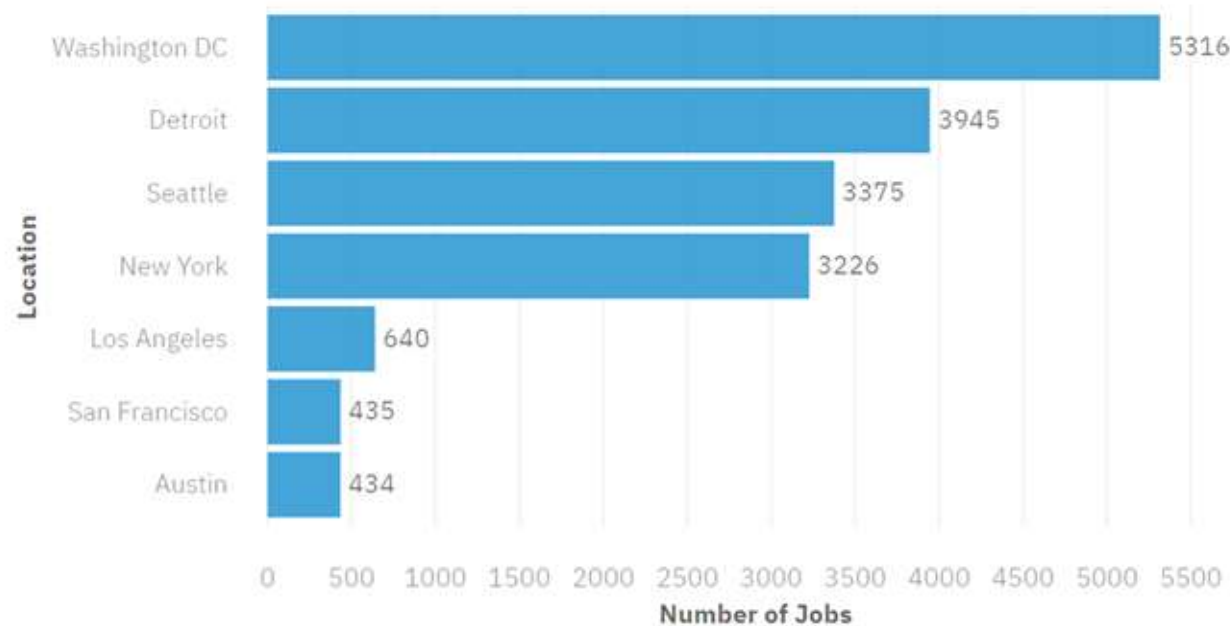
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BAR CHART FOR MAINBRANCH



JOB POSTINGS



POPULAR LANGUAGES

