Developer’s Job Survey

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OUTLINE

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

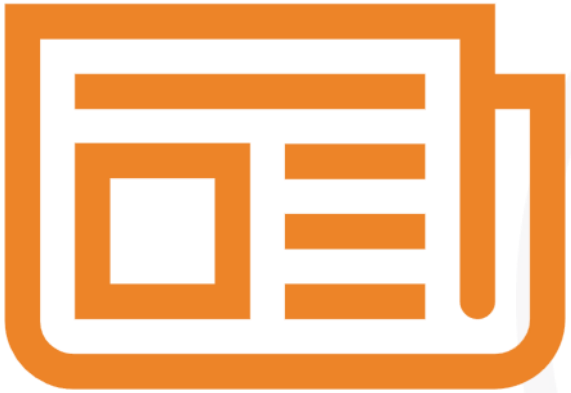
EXECUTIVE SUMMARY

- Data contextualization and visualization goal
- Methodologies
  - Data Collection
  - Data analysis
  - Data visualization
- Results & presentation (supported with graphs and visuals)
- Discussion of overall findings and implication regarding the results gathered
- Final conclusion, carried out of research

INTRODUCTION

- Developer’s Job Survey is an extensive annual survey that gathers insights from developers worldwide, making it one of the largest and most influential surveys in the tech industry.
- It captures perspectives from a diverse, global developer community, covering topics like programming languages, technology trends, and workplace dynamics.
- The survey provides valuable, data-driven insights that influence decisions in the tech industry and help shape future trends.
- Trend to predict what developers are doing.
    - Nearly 90,000 developers were part of this program.

METHODOLOGY

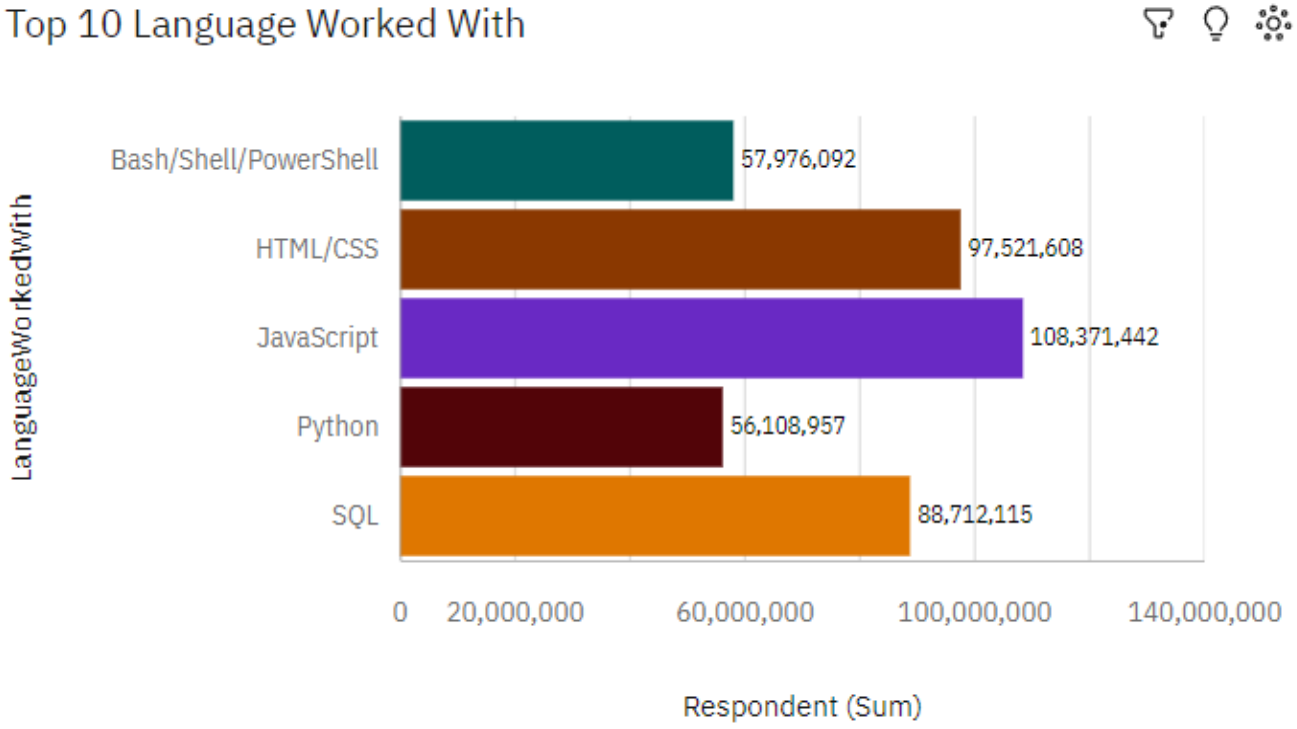


- Collection of Data & Exploration
  - Collecting data using API’s
  - Collecting data using Webscraping
  - Exploring data
- Data Wrangling
- Exploratory Data Analysis
  - Finding & handling Outliers
- Data Visualization
  - Highlighting Distribution of data. Relation between them, composition & comparison.
- Dashboards

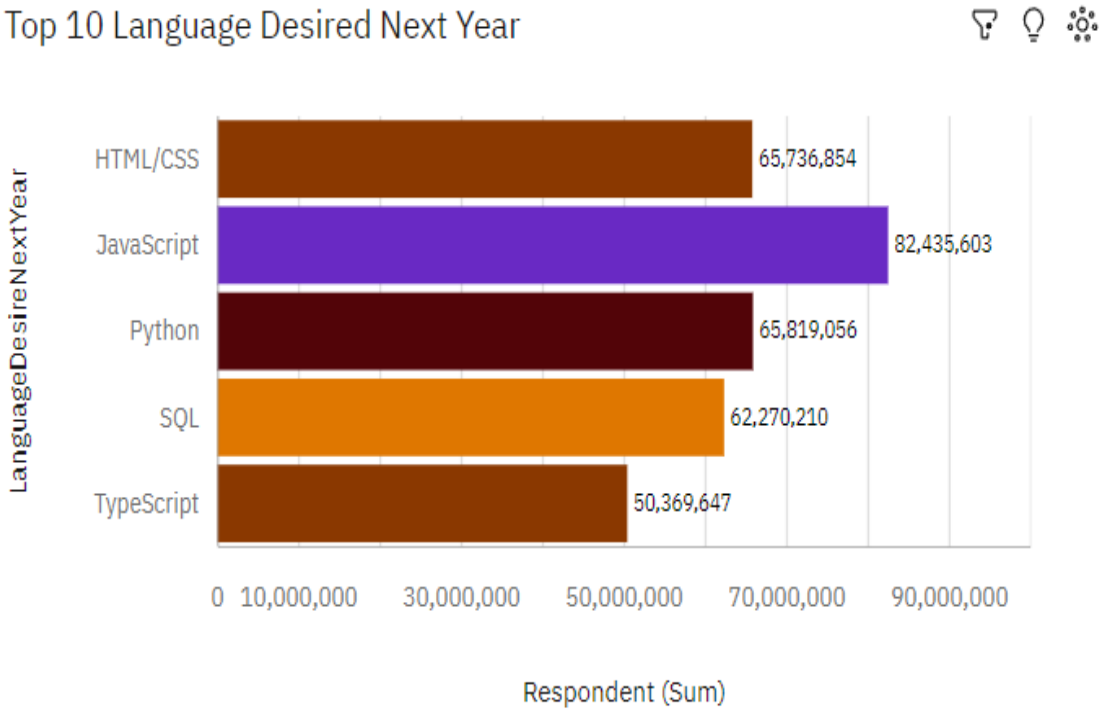
RESULTS

PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

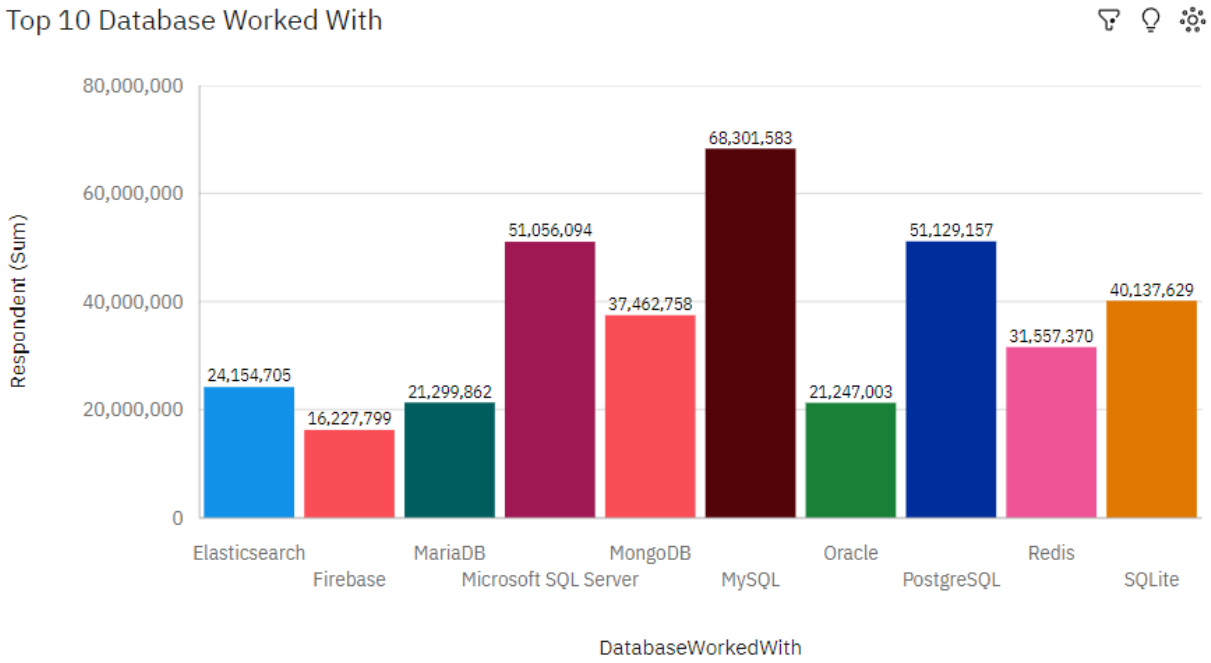
- HTML sounds best with the developers
- Python and C# is growing high comparatively
- GO becomes trending and interesting language among them.

Implications

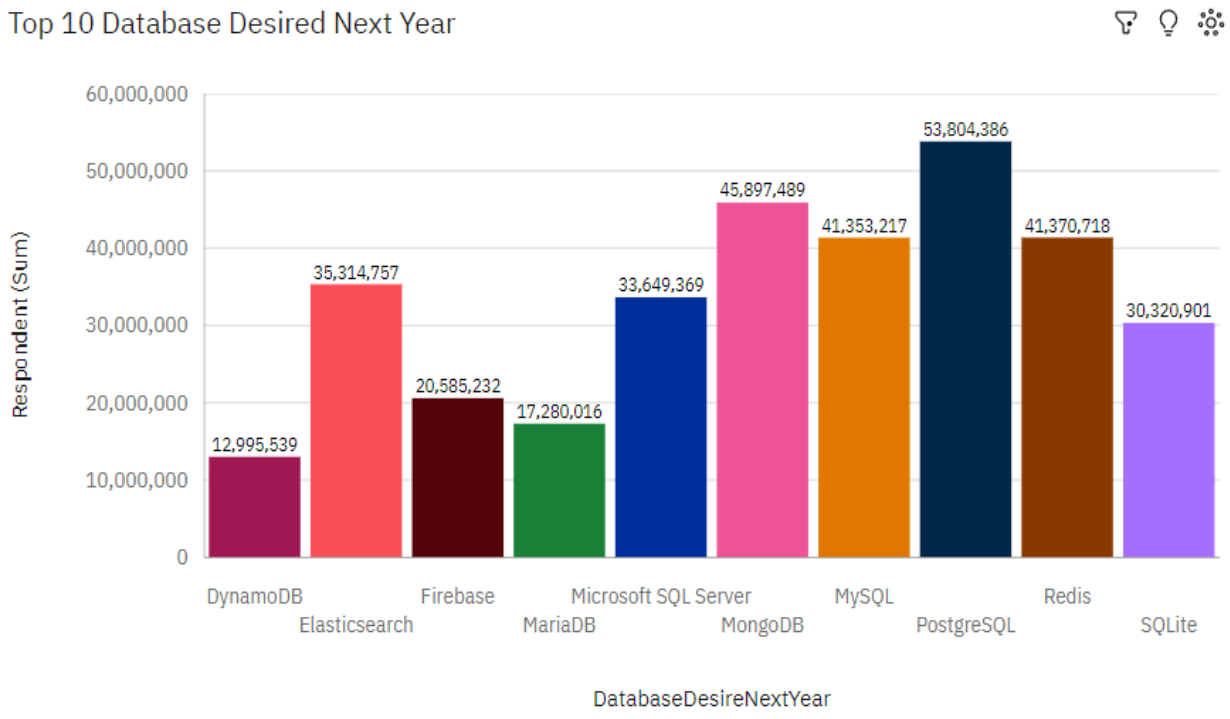
- Developers have to migrate from the old language to new and fastest languages.

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- They lost interest in Microsoft SQL Server and MySQL
- MongoDB, Elastic Search and PostgreSql became popular database applications preferred by developers
- SQL holds the state of most used database during the year by developers

Implications

- Establishing of MongoDb, PostgreSql in the companies and organizations.
- Moving from MySql and Microsoft SQL Server.

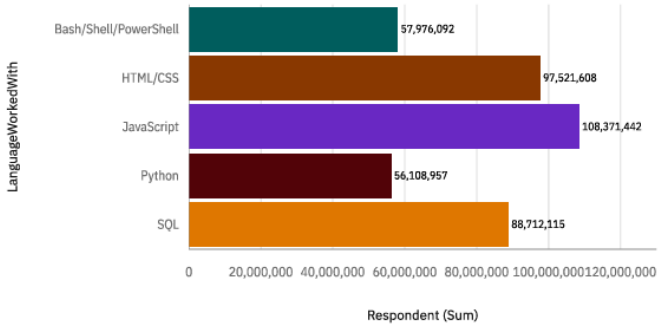
DASHBOARD

https://github.com/Govind200222/IBM-Data-Analyst-Capstone-Project

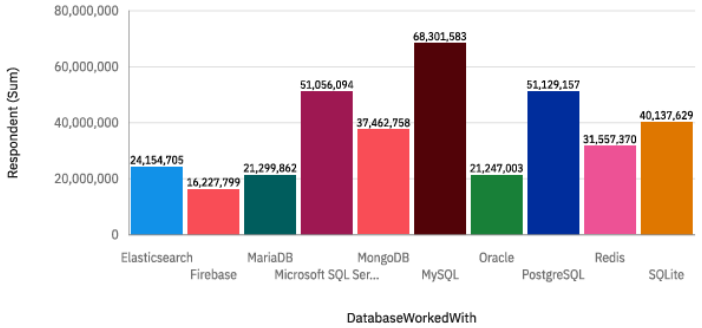
DASHBOARD TAB 1

Tab 1

Top 10 Language Worked With

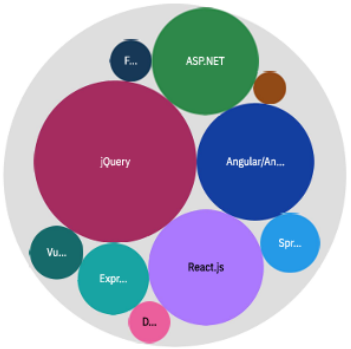


Top 10 Database Worked With



Platform worked with

Top 10 Web Frame worked with



DASHBOARD TAB 2

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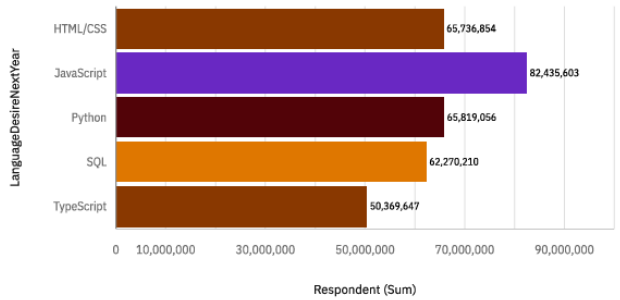
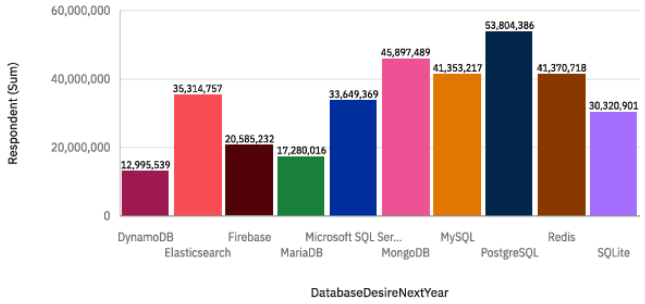
Future Technology Trend

Tab 1

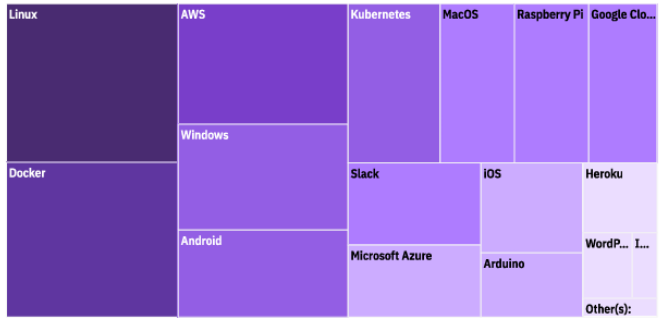
Top 10 Language Desired Next Year



Top 10 Database Desired Next Year

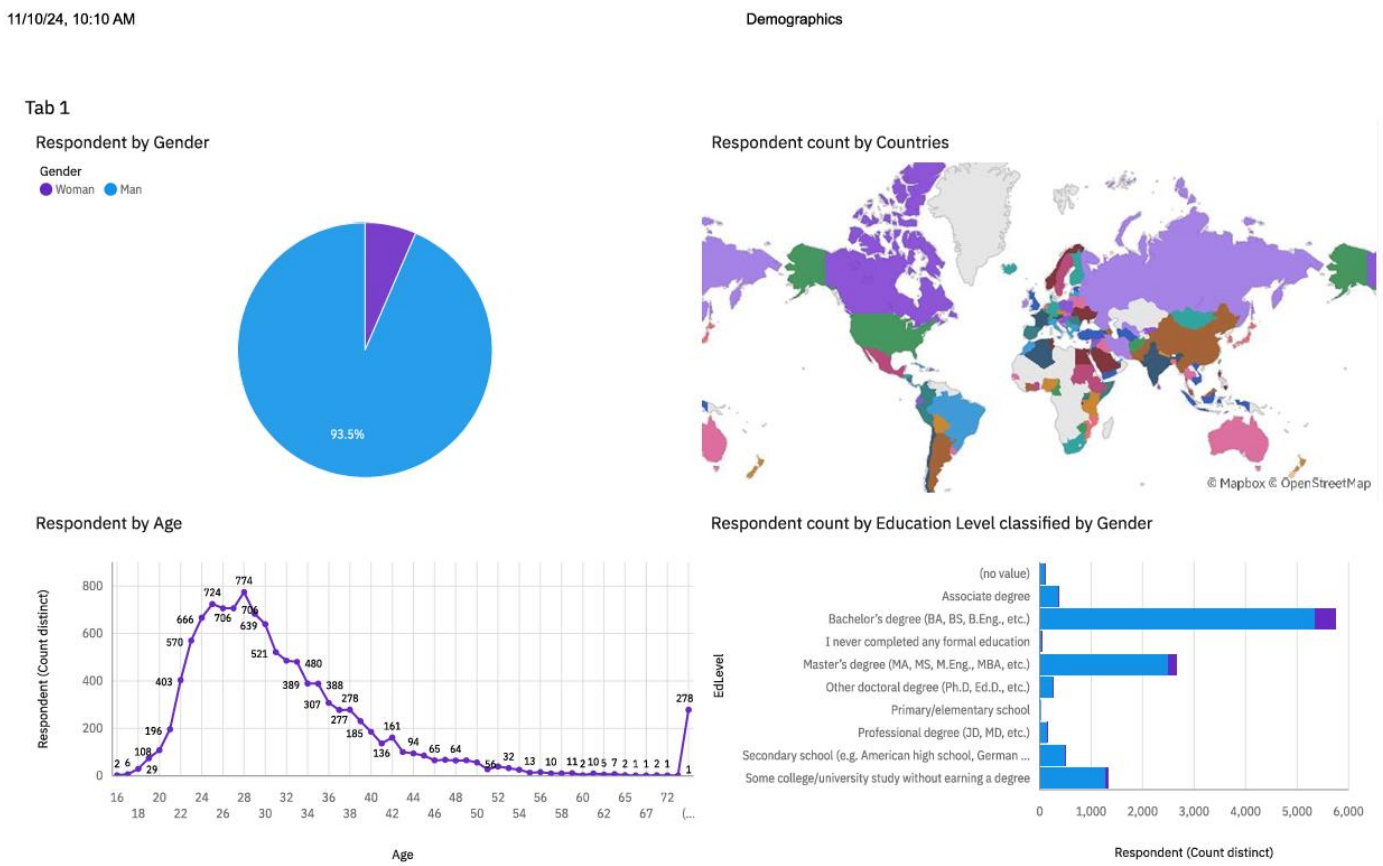


Platform Desired Next Year hierarchy



Top 10 WebFrame Desired Next Year

DASHBOARD TAB 3



DISCUSSION

OVERALL FINDINGS & IMPLICATIONS

Findings

- Widely used programming language was Java Script
- More than 90% of developers are male
- Newer technologies are getting trend and most of the developers are migrating to it

Implications

- JavaScript and TypeScript catching developer’s interest
- Global polarization of developer’s location and Genders
- Most of the young graduates who become developer’s are without post graduation

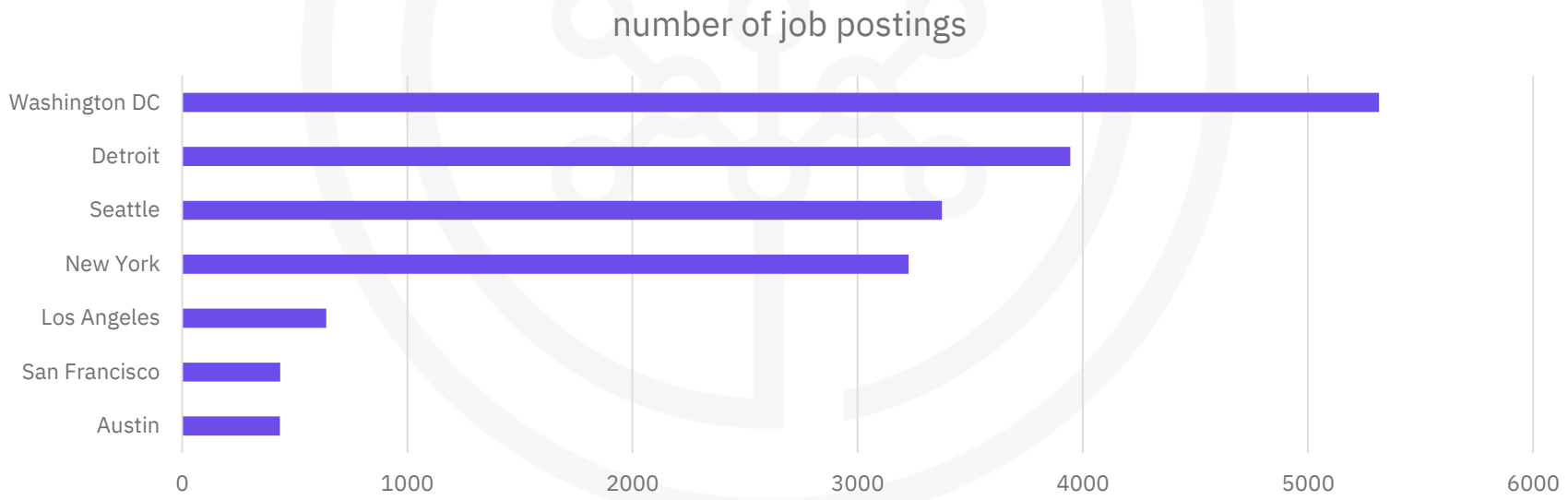
CONCLUSION

- Developer’s are having different kind of characteristics and interests
- Overall insights shown me that people are moving towards the trending and upcoming technologies
- Most of the developers are from USA.
- Python is going to make a new revolution in the programming and developer’s industry

APPENDIX

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.



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.