TECHNOLOGY TRENDS SURVEY

SUPRIYA SONAWANE

28-12-23

OUTLINE

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

IBM **Dev**oper

SKILLS NETWORK

EXECUTIVE SUMMARY

- CURRENT TECHNOLOGY TRENDS
  - TOP 10 LANGUAGES
  - TOP 10 DATABASE
  - TOP 10 PLATFORMS
  - WEBFRAMES

- FUTURE TECHNOLOGY TRENDS
  - TOP 10 LANGUAGES
  - TOP 10 DATABASE
  - TOP 10 PLATFORMS
  - WEBFRAMES

- DATA ANALYSIS BASED ON DEMOGRAPHICS

IBM Developer

SKILLS NETWORK

INTRODUCTION

- A comprehensive survey of current and future technology trends conducted to unveil key insights and tech trends

- By examining relevent metrics like tech frameworks, database etc.,this analysis aims to
provide valuable information for strategic decision making

- The findings offer actionable recommendation's to maintain a competitive edge in the evolving technology landscape

METHODOLOGY

- Our analysis is focused on dissecting and interpreting the 2023 of current and future technology trends .

- Here's a brief overview of our methodology:

- Source Report: Utilized the comprehensive data set provided by the 2023 of current and future technology trends , which reflects global developer responses.

- Data Extraction: Carefully extracted relevant data for three critical areas: Current Technology Usage, Future Technology Trend, and Demographics.

- Analysis Approach: Conducted thorough analysis to identify key patterns, preferences, and shifts in technology usage, future desires, and demographic makeup.

- Visualization: Created targeted visualizations for each category to depict the insights clearly and effectively, facilitating easy understanding and interpretation

IBM Developer

SKILLS NETWORK

RESULTS

- Programming Language: Javascript,HTML/CSS,Python are popular languages now with python gaining popularity as seen in future tech trends

- Databases: Mysql server,postgres.sqlLite lead the database landscape with Redis predicted to lead in the upcoming years

- Platforms: Windows,Linus,AWS are widely use platforms with slack and kubernetes gaining popularities

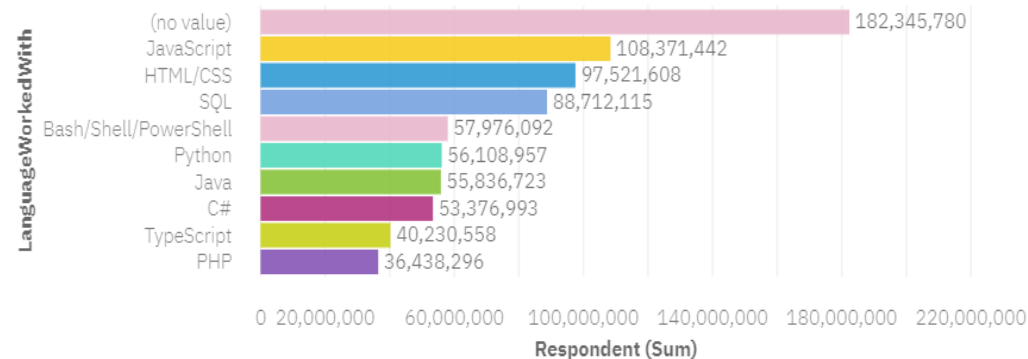- Webframeworks: JQuery,Angular,React are popular webframeworks
- React will maintain to dominate along with vue.js

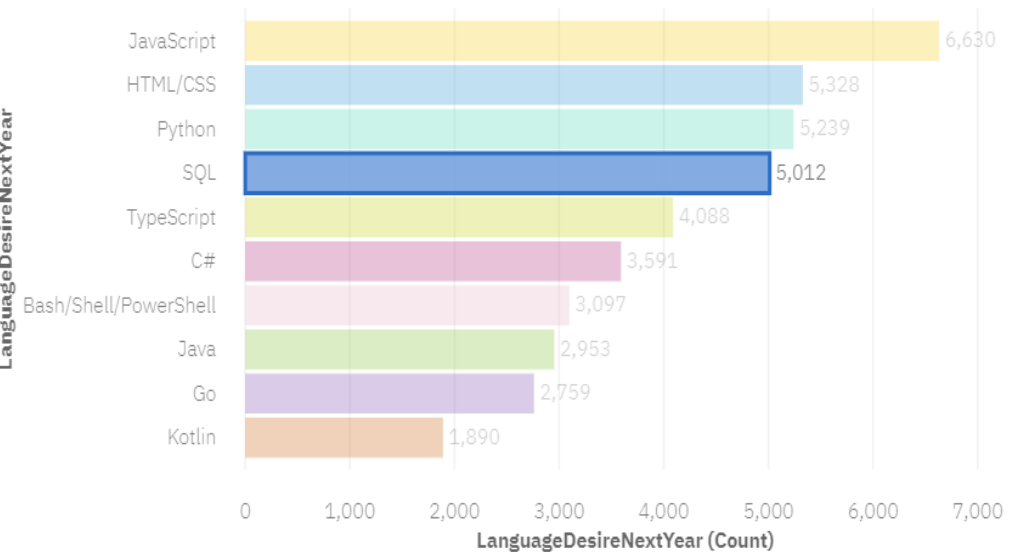# PROGRAMMING LANGUAGE TRENDS

Current Year

Next Year

PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Java,HTML ,Python,SQL are among top languages who maintain their top spots in future
- Php loses the spot in future trending languages
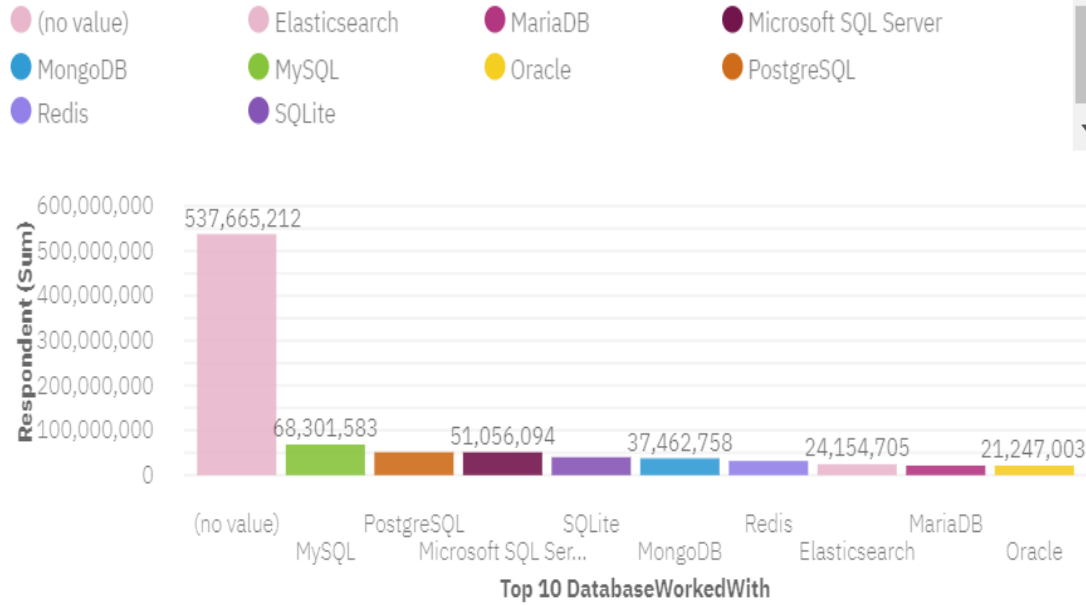- Typescript gains popularity

Implications

- Developers should focus on improving their JavaScript skills to meet the industry demand, learn typescript would be a good idea as it is a superset of javascript.
- Python which is the number one in the data field, developers can benefit from learning and leveraging its powerful features for data analysis, machine learning, and automation tasks.

IBM **Dev** loper

SKILLS NETWORK

DATABASE TRENDS

Current Year

Next Year

Top 10 DatabaseWorkedWith

Top 10 DatabaseWorkedWith
- (no value)
- Elasticsearch
- MariaDB
- Microsoft SQL Server
- MongoDB
- MySQL
- Oracle
- PostgreSQL
- Redis
- SQLite

537,665,212
68,301,583
51,056,094
37,462,758
24,154,705
21,247,003

Top 10 Database Desire Next Year

DatabaseDesireNextYear
- Firebase
- MariaDB
- Microsoft SQL Server
- MongoDB
- MySQL
- Oracle
- Other(s):
- PostgreSQL
- Redis
- SQLite
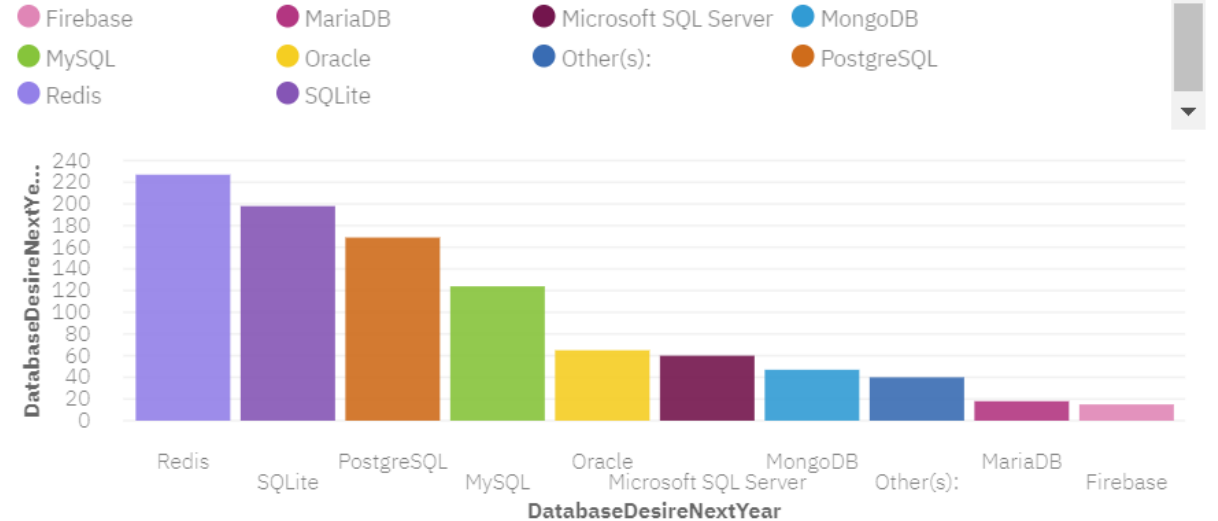
DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- The most commonly used databases at present are MySQL, SQL Server, and PostgreSQL. Looking ahead, PostgreSQL is expected to witness increased adoption. MongoDB and Redis are great NOSQL options.

Implications

- Developers should prioritize gaining proficiency in PostgreSQL to align with the growing demand. Familiarity with MongoDB and Redis can provide an advantage, as these databases are gaining prominence in the industry

IBM **Dev**eloper

SKILLS NETWORK

DASHBOARD

https://eu-de.dataplatform.cloud.ibm.com/dashboards/6b3f58f2-7163-4f2c-bede-4cf99213c8cd/view/4f66dd7700e933f64ce8f2e407cb24532f62700eb6bbd20083d37b4907362397a86a17c0c8794858d2420431faea165acb
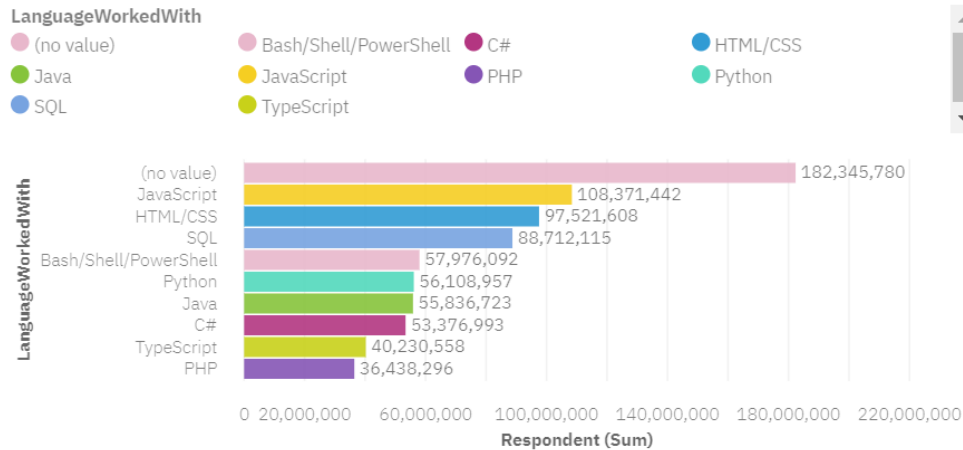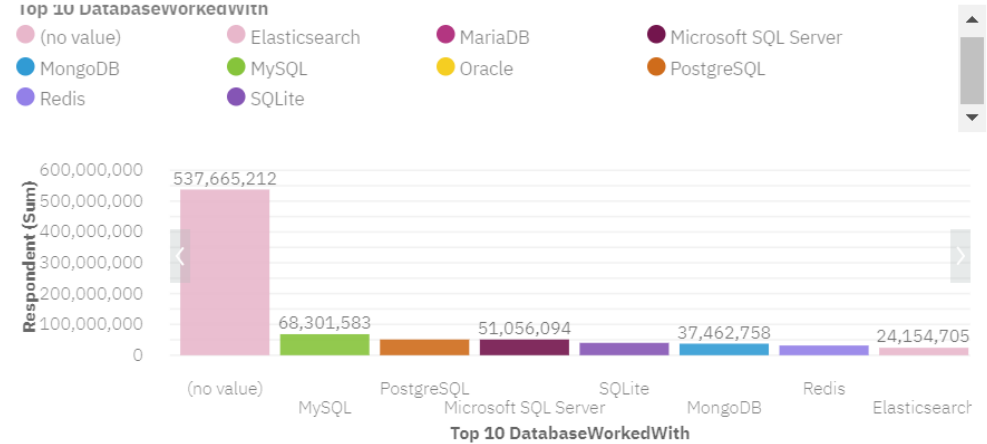
IBM Developer

SKILLS NETWORK

DASHBOARD TAB 1

Current Technology Usage.   Future Technology Trend.   Demographics

Top 10 LanguageWorkedWith.

LanguageWorkedWith
- (no value)
- Bash/Shell/PowerShell
- C#
- HTML/CSS
- Java
- JavaScript
- PHP
- Python
- SQL
- TypeScript

LanguageWorkedWith	Respondent (Sum)
(no value)	182,345,780
JavaScript	108,371,442
HTML/CSS	97,521,608
SQL	88,712,115
Bash/Shell/PowerShell	57,976,092
Python	56,108,957
Java	55,836,723
C#	53,376,993
TypeScript	40,230,558
PHP	36,438,296

0 20,000,000 60,000,000 100,000,000 140,000,000 180,000,000 220,000,000

Respondent (Sum)

Top 10 DatabaseWorkedWith

Top 10 DatabaseWorkedWith
- (no value)
- Elasticsearch
- MariaDB
- Microsoft SQL Server
- MongoDB
- MySQL
- Oracle
- PostgreSQL
- Redis
- SQLite

Respondent (Sum)

- (no value): 537,665,212
- MySQL: 68,301,583
- PostgreSQL
- Microsoft SQL Server: 51,056,094
- SQLite
- MongoDB: 37,462,758
- Redis
- Elasticsearch: 24,154,705

Top 10 DatabaseWorkedWith

Platforms Worked With

PlatformWorked...   0   5,811

PlatformWorkedWith
- (no value)
- AWS
- Android
- Arduino
- Docker
- Google Cloud Platform
- Heroku
- IBM Cloud or Watson
- Kubernetes
- Linux
- MacOS
- Microsoft Azure
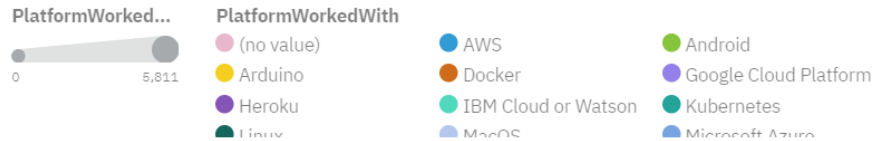
Top 10 WebFrameWorkedWith

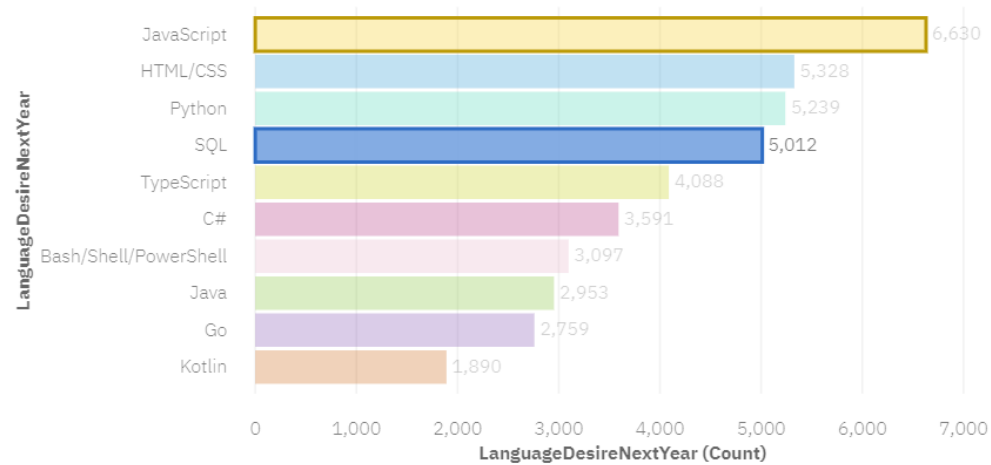**IBM Developer**   **SKILLS NETWORK**

DASHBOARD TAB 2

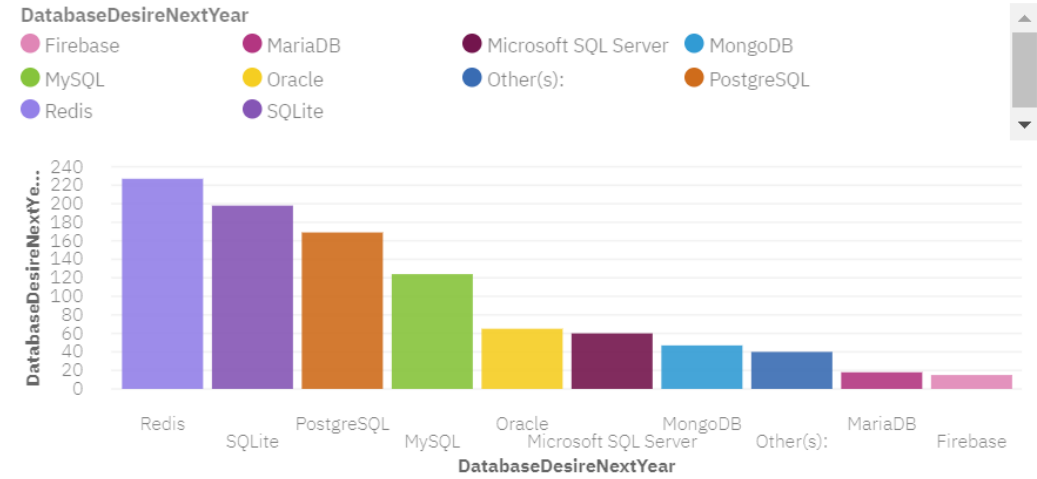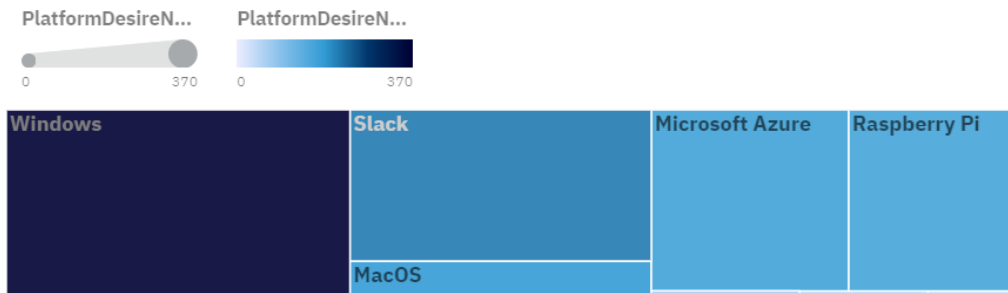**Current Technology Usage.**   **Future Technology Trend.**   **Demographics**

Top 10 Language Desire Next Year.

Top 10 Database Desire Next Year

Platform Desire Next Year
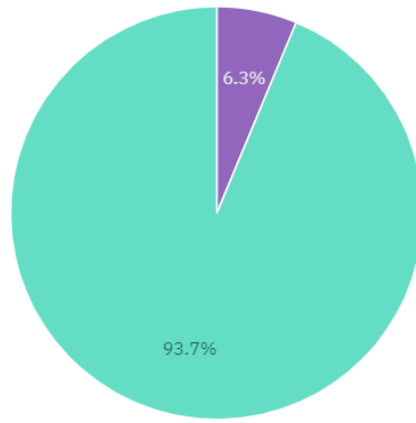

Top 10 Web Frame Desire Next Year.

powered by IBM **Cloud Pak for Da...**

IBM Developer   **SKILLS NETWORK**

DASHBOARD TAB 3

Current Technology Usage.   Future Technology Trend.   **Demographics**

DISCUSSION

OVERALL FINDINGS & IMPLICATIONS

Findings

- Java,HTML ,Python,SQL are among top languages who maintain their top spots in future .Typescript gains popularity

- The most commonly used databases at present are MySQL, SQL Server, and PostgreSQL. Looking ahead, PostgreSQL is expected to witness increased adoption. MongoDB and Redis are great NOSQL options.

Implications

- Developers should prioritize gaining proficiency in PostgreSQL to align with the growing demand. Familiarity with MongoDB and Redis can provide an advantage, as these databases are gaining prominence in the industry

- Python which is the number one in the data field, developers can benefit from learning and leveraging its powerful features for data analysis, machine learning, and automation tasks.

IBM Developer

SKILLS NETWORK

CONCLUSION

- In conclusion, this analysis provides insights into the current state and future trends of programming languages, databases, platforms, and web frameworks.

- The results highlight the prominence of JavaScript, HTML/CSS, and Python, with JavaScript and HTML/CSS maintaining their dominance and Python showing promising growth. It is important for developers to focus on these key languages and stay updated with emerging trends.

- By leveraging these findings, professionals can enhance their skills and grow in the software environment
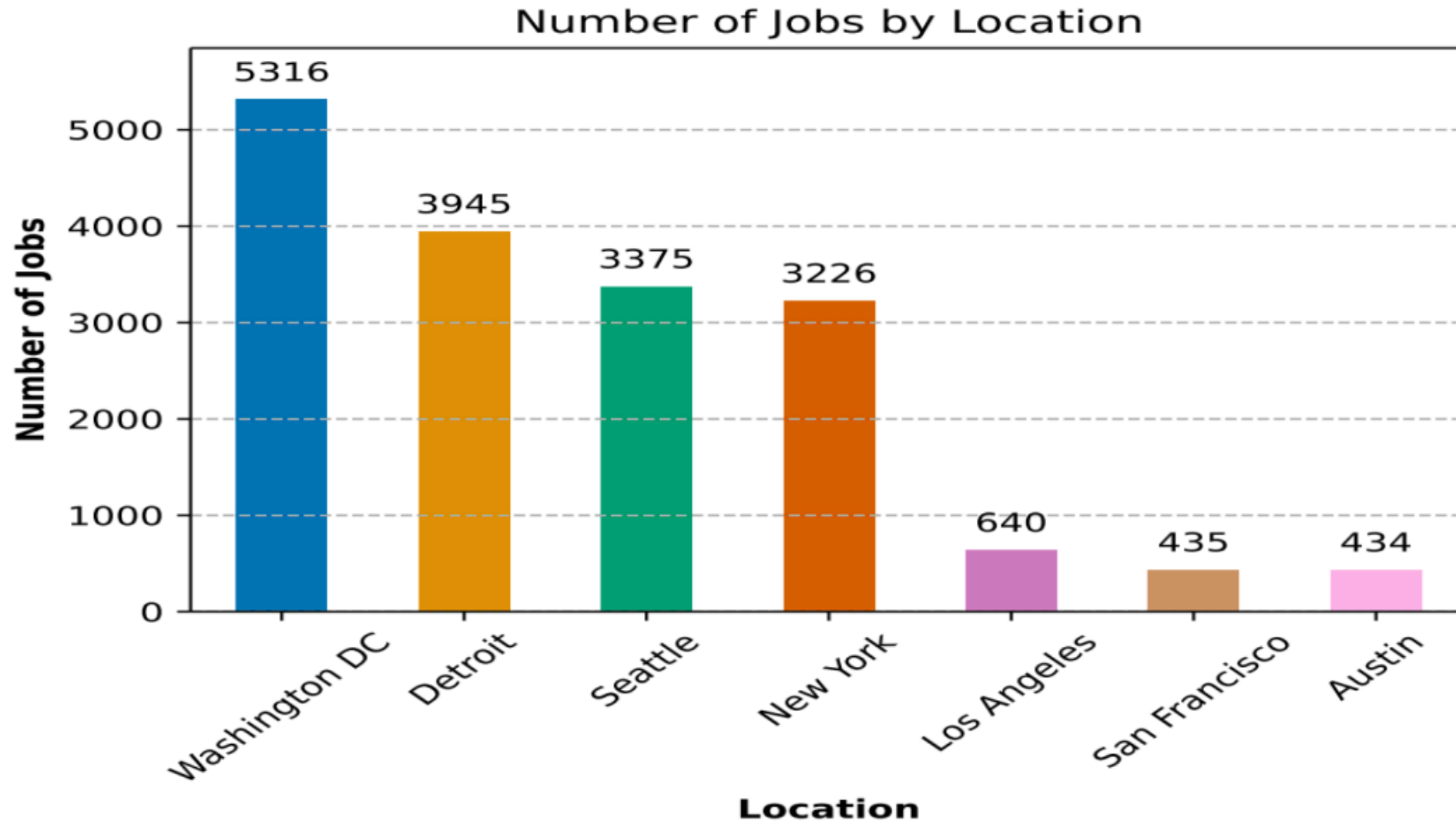
IBM Developer

SKILLS NETWORK

APPENDIX

Respondent Count by Age

JOB POSTINGS

Number of Jobs by Location
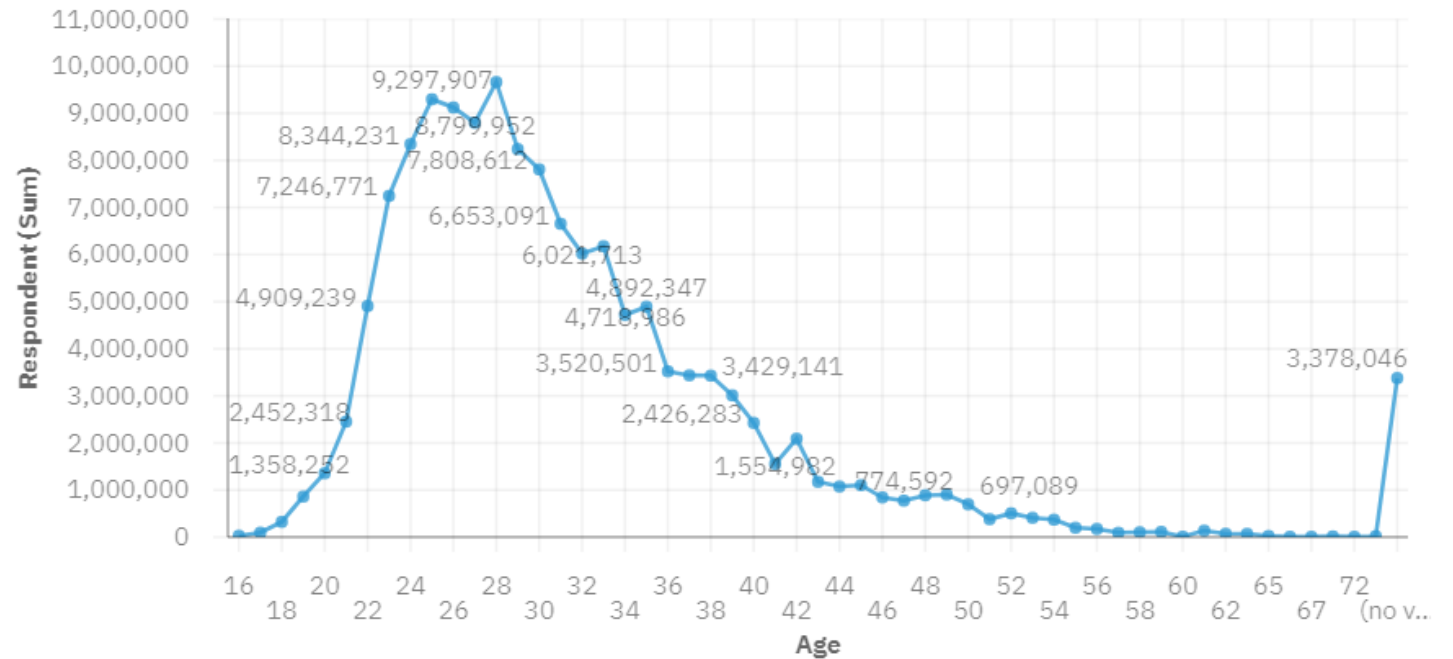
POPULAR LANGUAGES

Number of job postings