



Final project

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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



- This 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. And Characterization of developers around the globe.

METHODOLOGY



- Collect survey data & explore its content.
- Data Wrangling
- Exploratory data analysis
 - Analyzing data distribution
 - Handling outliers
 - Correlations
- Data Visualization
- Dashboards

RESULTS

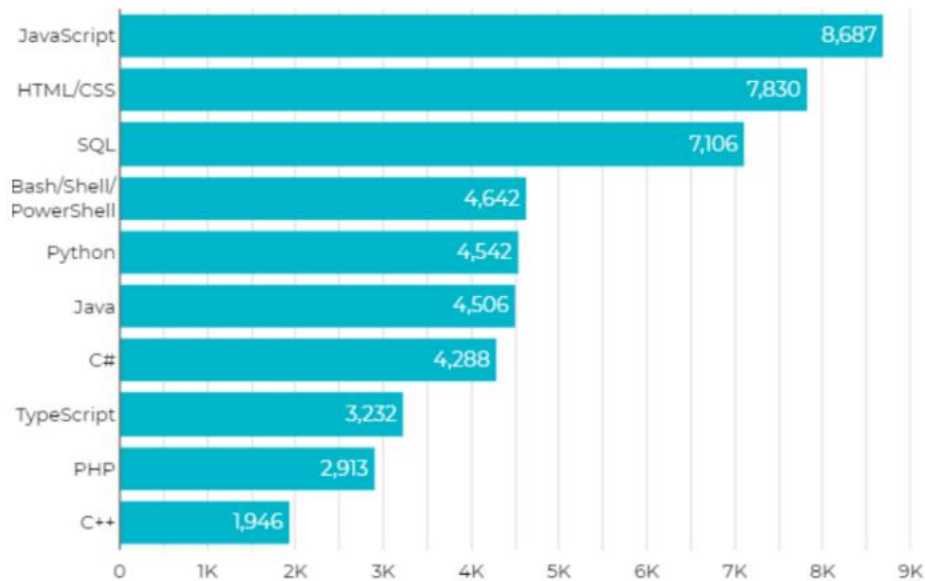
	Respondent...	LanguageWorkedWith	LanguageDesireNextYear	DatabaseWorkedWith	DatabaseDesireNextYear
1.	25142	R			
2.	25142	Python			
3.	25142	C	C		
4.	25142	Go	Python		
5.	25142	C++	C++		
6.	25142	HTML/CSS	R		
7.	25142	PHP			
8.	25142	Bash/Shell/PowerShell	Bash/Shell/PowerShell	PostgreSQL	PostgreSQL
9.	25141	C#	F#		Microsoft SQL Server
10.	25141	JavaScript			
11.	25141	TypeScript			
12.	25141	HTML/CSS			Redis
13.	25141	Java			
14.	25141	Python			
15.	25141	SQL			

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PROGRAMMING LANGUAGE TRENDS

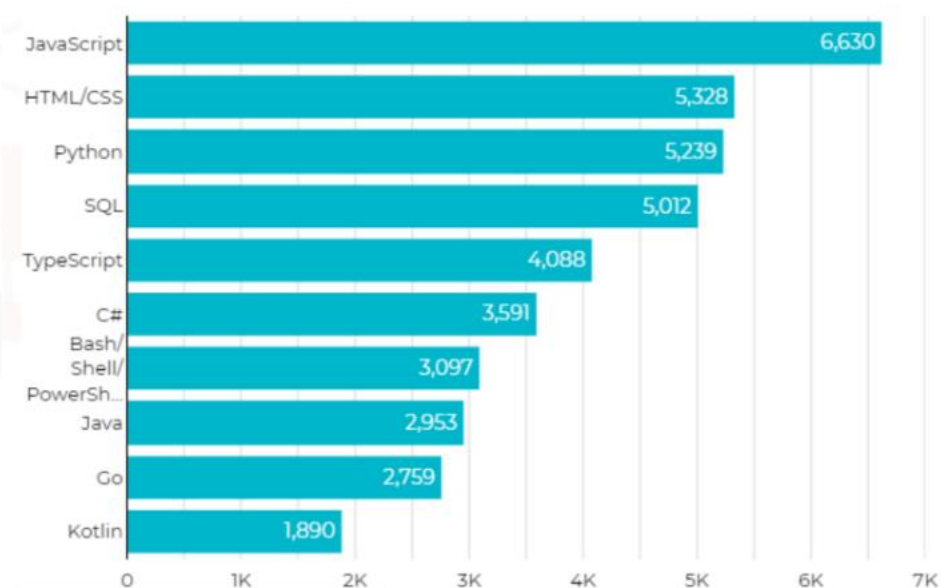
Current Year

Top 10 Language Worked With



Next Year

Top 10 Language Desired Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

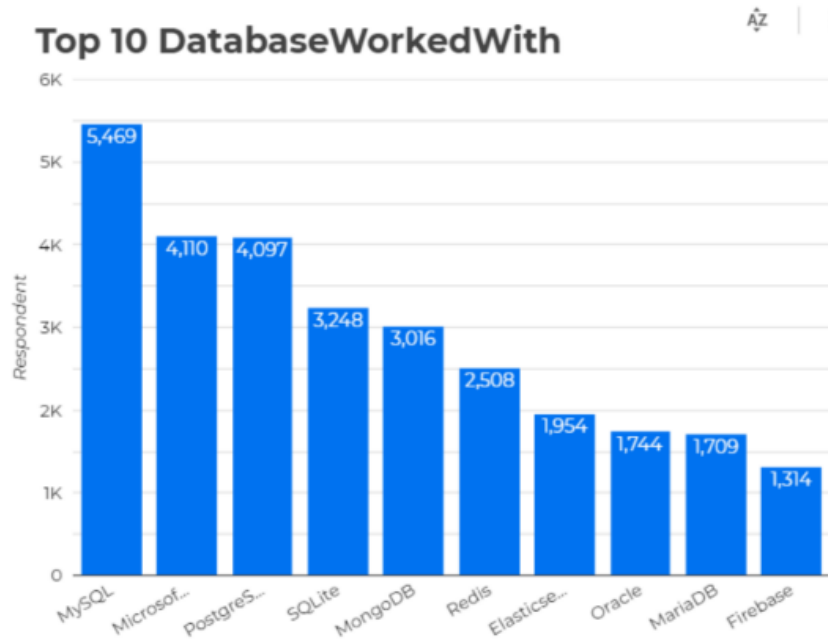
- JavaScript, Html, Sql are top three
- Python becoming popular next year
- PowerShell edged out in next year

Implications

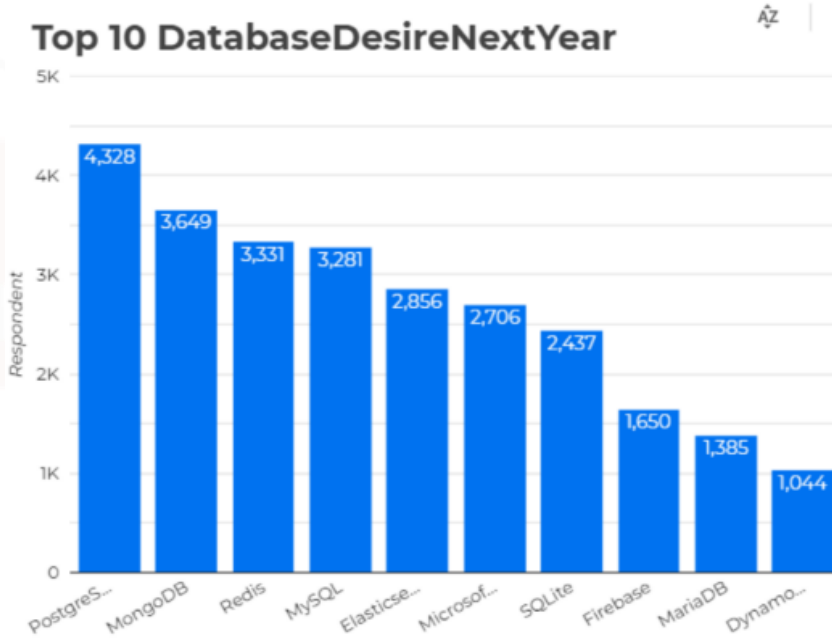
- Web development are still in high demand
- Big data in companies still requires SQL.
- With AI and ML gaining popularity, Python is best choice

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- MySQL most popular
- Behind is Microsoft SQL
- MongoDB are upcoming favorites
- Elasticsearch gaining popularity.

Implications

- Open-source database are preferable in companies still.
- NoSQL will make an impact for sorting non relational data.
- Redis supports abstract data types.

DASHBOARD

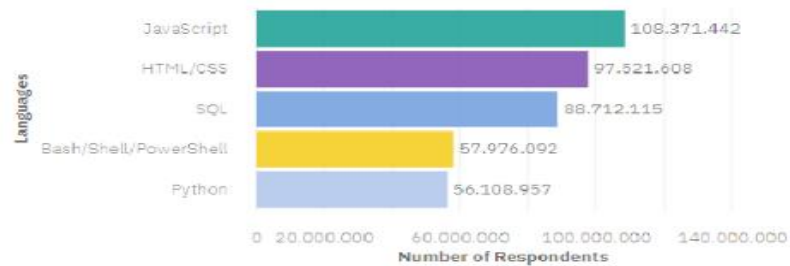


<https://github.com/makeitezz/My-project/blob/main/Dashboard%20with%20Cognos%20Final%20Project.pdf>

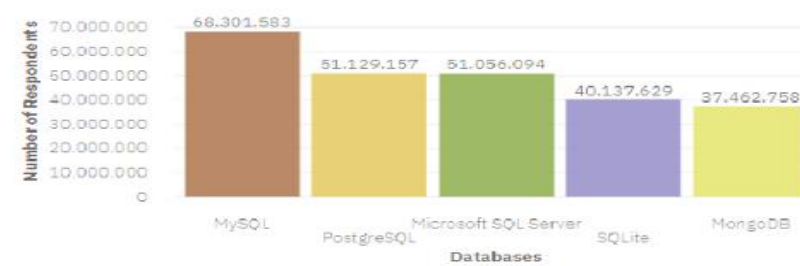
DASHBOARD TAB 1

CURRENT TECHNOLOGY USAGE

Top 5 Programming Language Experience



Top 5 Databases Worked with



Platforms Interacted



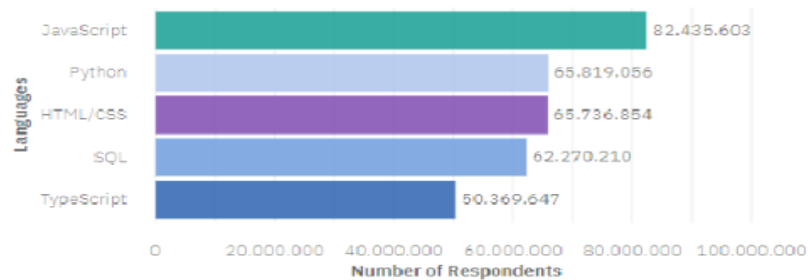
Top 10 WebFrames Used



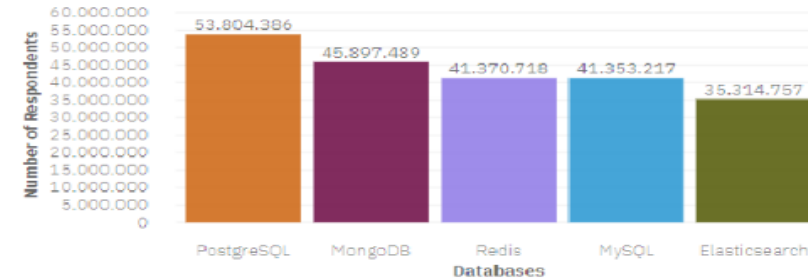
DASHBOARD TAB 2

FUTURE TECHNOLOGY TREND

Top 5 Desired Language to Learn



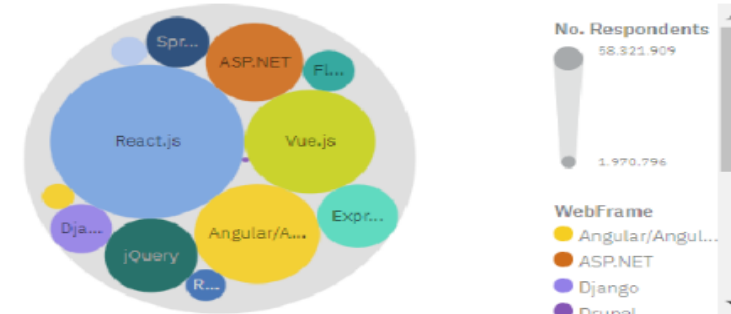
Top 5 Desired Database to Learn



Platform Next Year



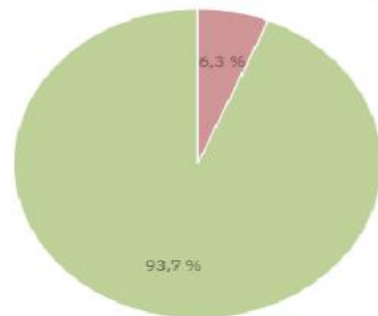
Top 10 WebFrame Next Year



DASHBOARD TAB 3

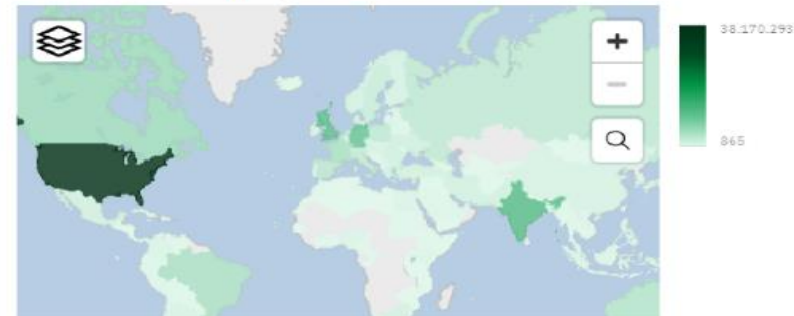
DEMOGRAPHICS

Respondent by Gender

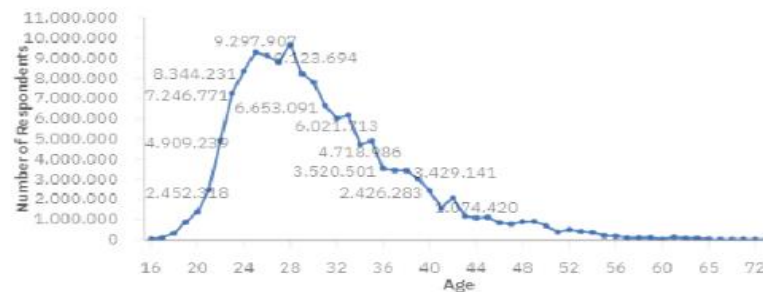


Gender
● Woman
● Man

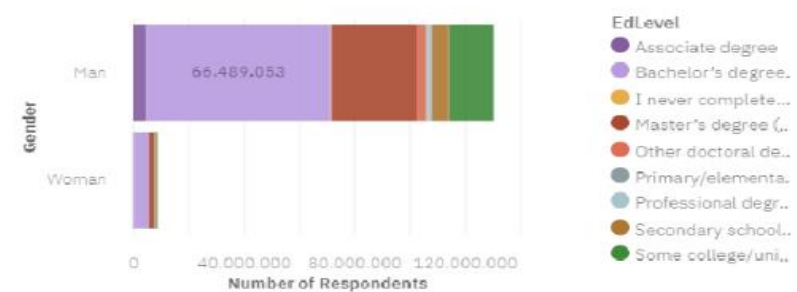
Respondent Locations



Respondent by Age



Formal Education Level / Gender



EdLevel
● Associate degree
● Bachelor's degree.
● I never complete...
● Master's degree (..
● Other doctoral de..
● Primary/elementa..
● Professional degr..
● Secondary school..
● Some college/unii..

DISCUSSION



- Technology trends now and in future
- Training and reskilling of workers.
- Females participation in IT field
- Eliminating age and education discrimination in employment.

OVERALL FINDINGS & IMPLICATIONS

Findings

- Fast and changing technology every year
- Gender gap in IT jobs.
- Platforms like docker and AWS are growing

Implications

- Companies need to be flexible to rapid changes and adapt.
- Need to spread technology.
- Shift to cloud services in future,

CONCLUSION



- Technology trends for current and next year
- Programming language, database and platform overview
- Demographic overview
- Action to be taken

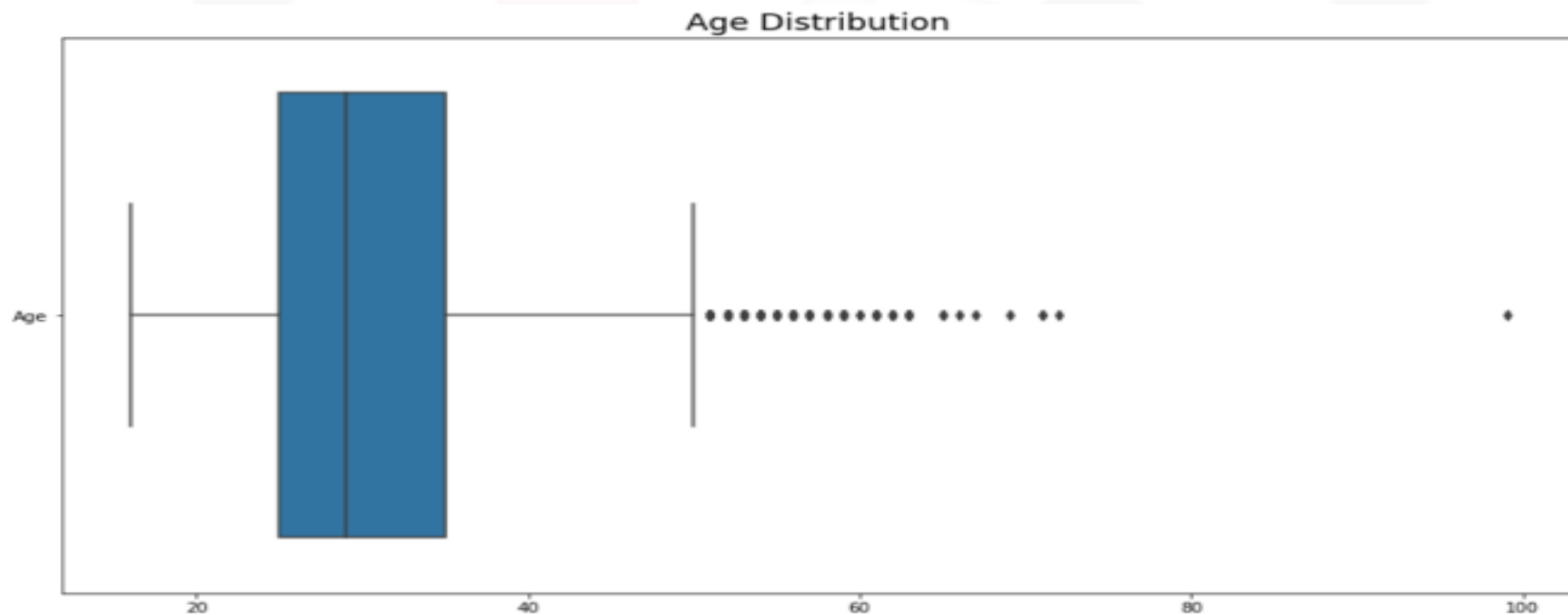
APPENDIX



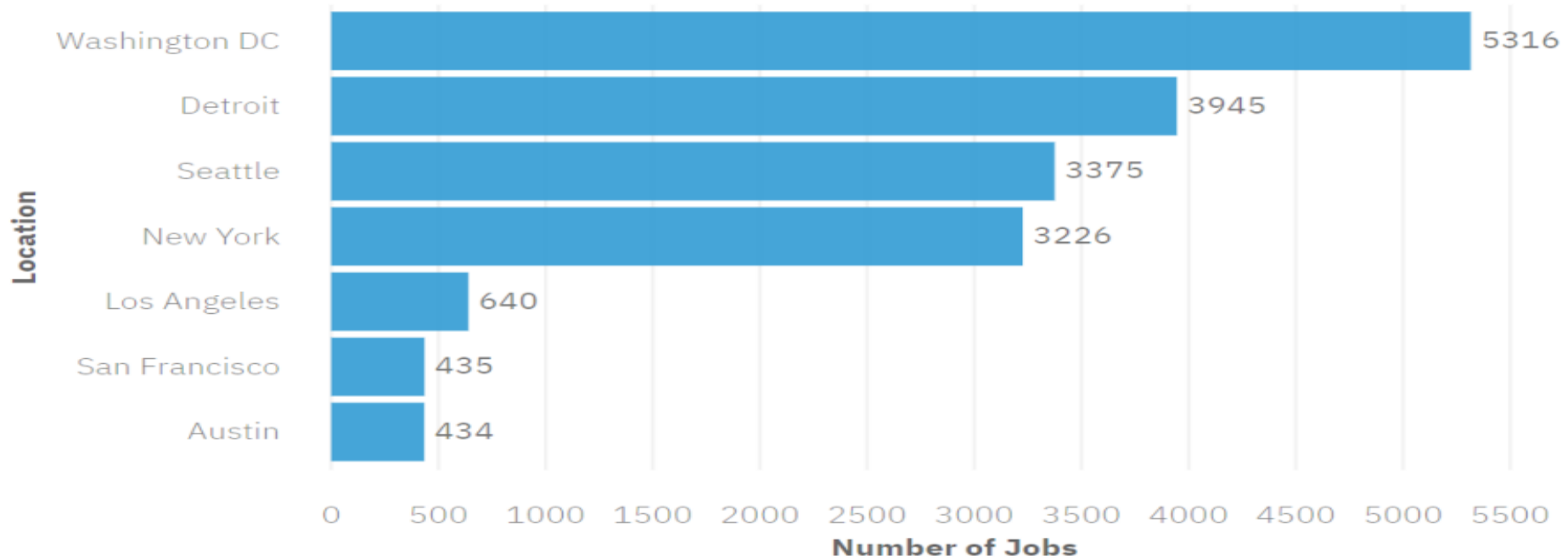
- Include any relevant additional charts, or tables that you may have created during the analysis phase.

Age distribution

AGE DISTRIBUTION BOXPLOT



JOB POSTINGS



POPULAR LANGUAGES

