Stack Survey

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OUTLINE

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

EXECUTIVE SUMMARY

- Data Infoand analysis goal
- Methodology description
- Data gathering
- Data analysis
- Data visualizations
- Results shows through graphs and trends
- Discussion of overall findings
- Final conclusions of the carried out reserach

INTRODUCTION

- Stack Overflow's annual developer survey is the largest and most comprehensive survey of people who code arund the world
- Results dont represent everyone in the developer community evenly.
- Nearly 90,000 developers
- Trends to predict where the developers are going
- Charactersticts of developers around the globe

METHODOLOGY

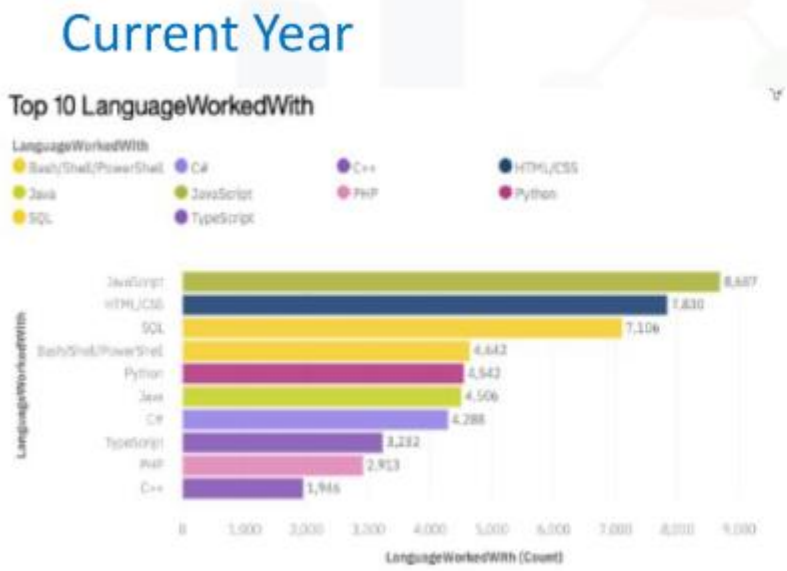
- Collect Survey data and explore its content
- web scrapping
- API
- Request library
- Data Wrangling
- Exploratory data analysis
- Analyzing data distribution
- Handling outliers
- Correlations
- Data Visualization
- Highlight distribution of data,relationships and comparison of data
- Dashboards

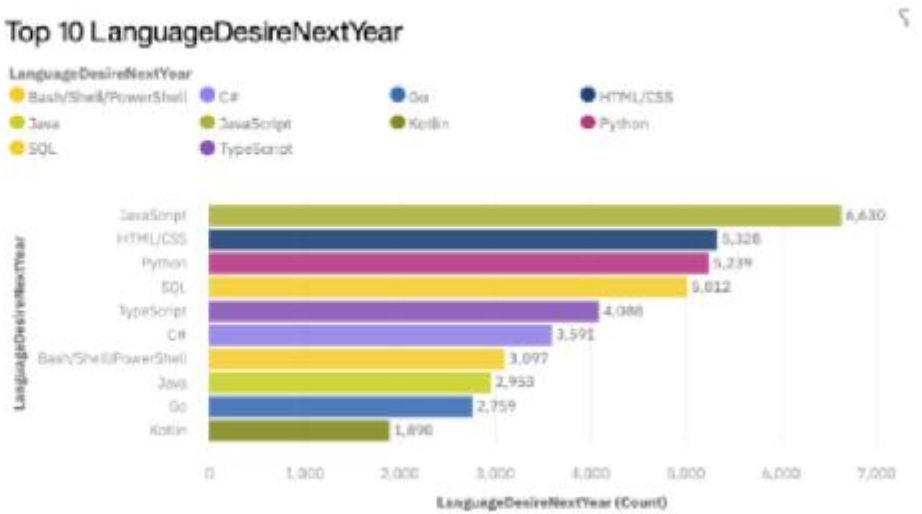
RESULTS

PROGRAMMING LANGUAGE TRENDS

Current year

Next Year





PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

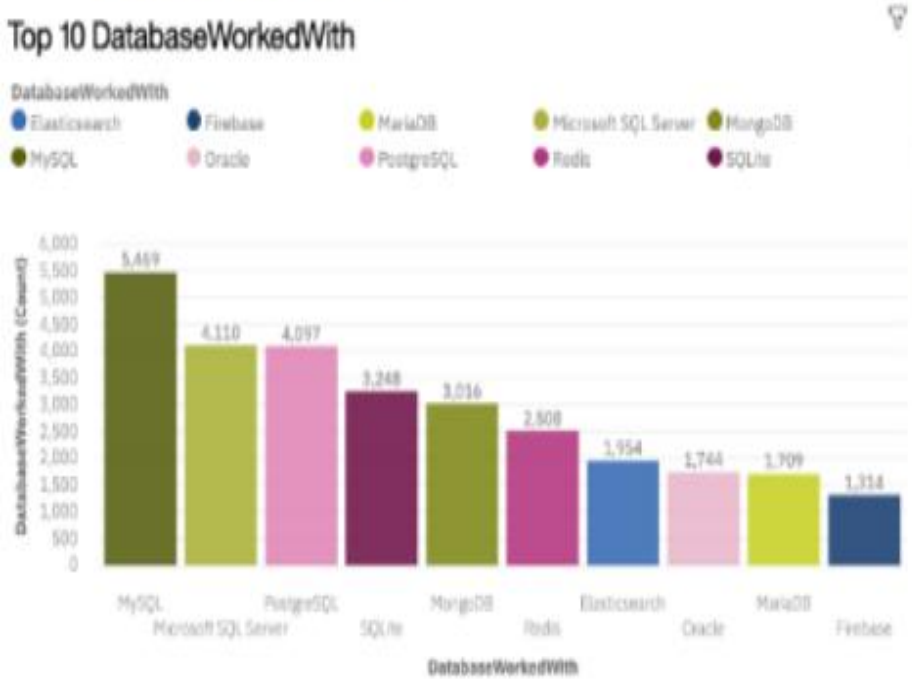
- JavaScript seems to keep as leading language
- Python fastest growing
- Great interest in TypeScript

Implications

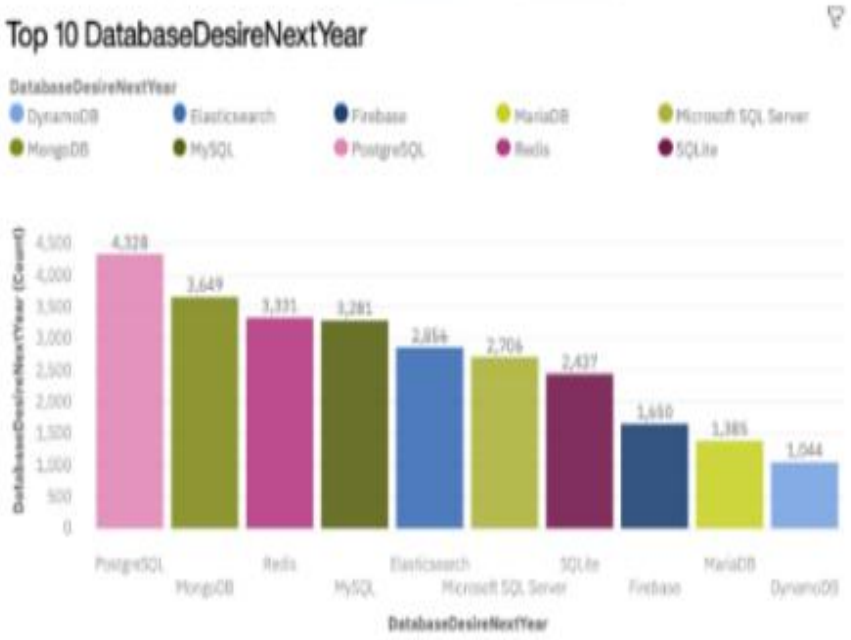
- Possible developers migration from JavaScript to TypeScript

DATABASE TRENDS

Current Year



Next Year



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

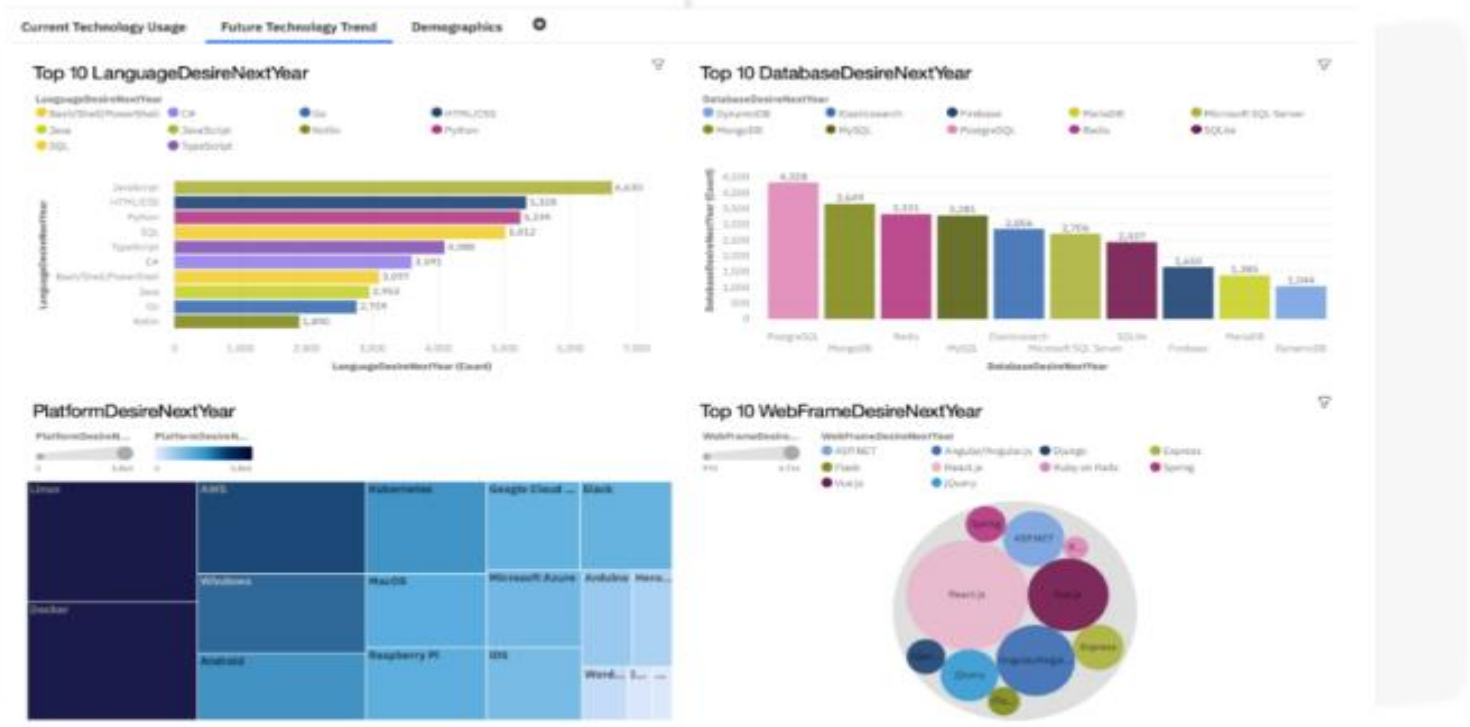
- Microsoft SQL Server and SQLite losing ground in the market
- PostgreSQL and MongoDB establishment in the market

DASHBOARD

The https://github.com/NeetuBawa/TASK06-Dashboard-with-Cognos-Dashboard-Embedded--CDE-.pdfGitHub link of the Cognos dashboard goes here.

DASHBOARD TAB 1

DASHBOARD TAB 2



DASHBOARD TAB 3

DISCUSSION

OVERALL FINDINGS & IMPLICATIONS

Findings

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

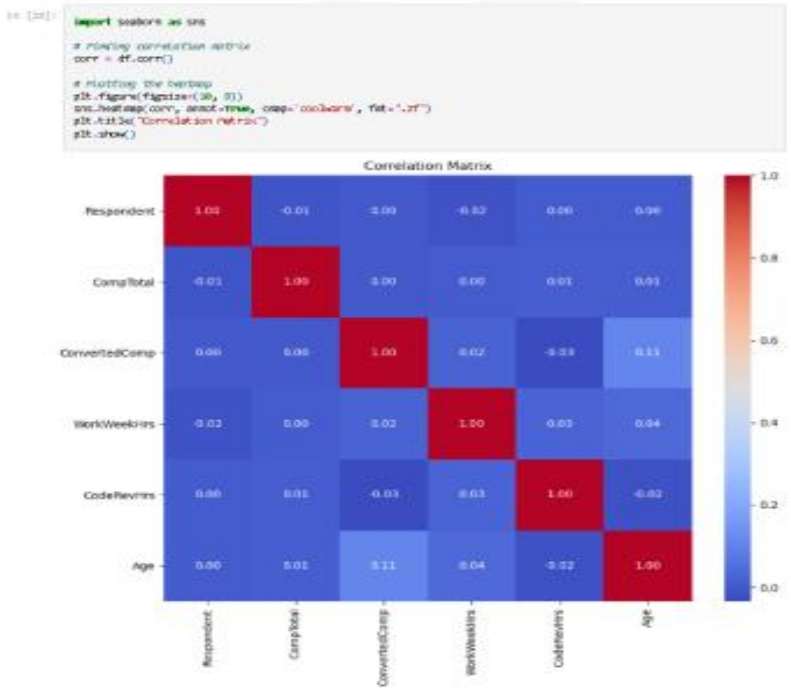
Implications

- JavaScrip and TypeScript web frames gaining followers
- Global polarization of developer's location and gender.
- Young developers without postgrad studies on its majority.

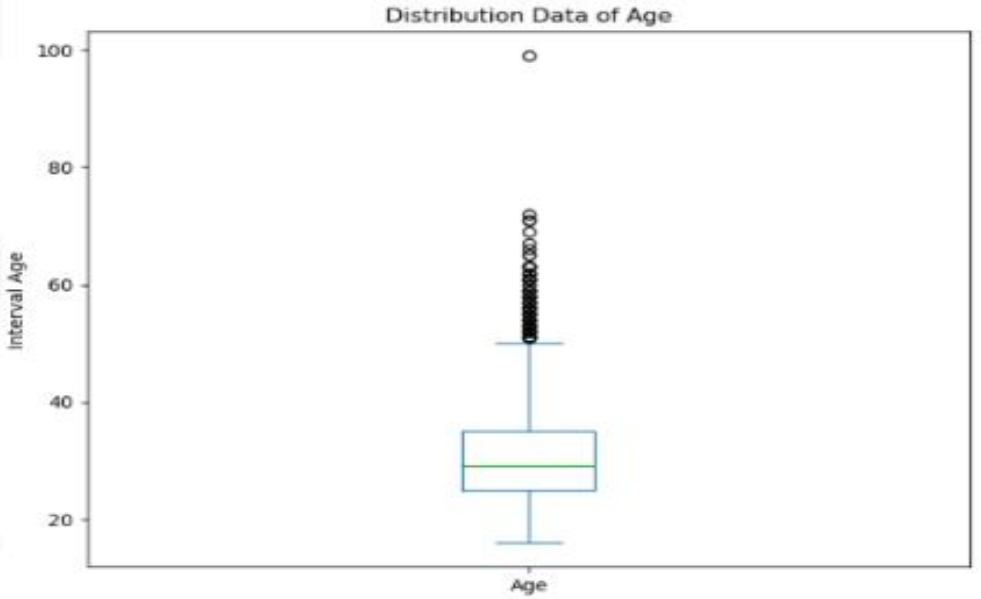
CONCLUSION

- Developers are people with very marked characterstics
- A goodidea of popluarity 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

APPENDIX

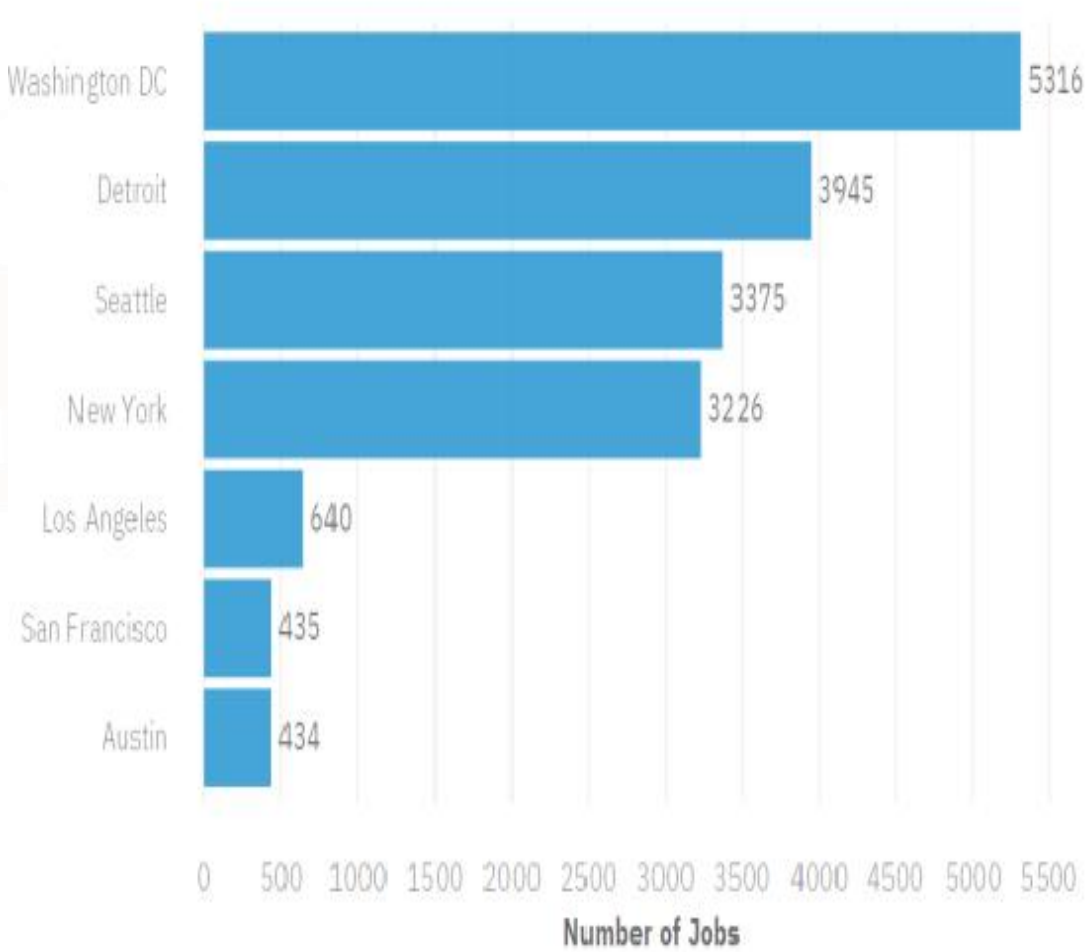



```
df['Age'].plot(kind='box', figsize=(8, 6))

plt.title('Distribution Data of Age')
plt.ylabel('Interval Age')

plt.show()
```



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.