

IBM Capstone project

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OUTLINE



- Executive Summary
- Introduction
- Methodology
- Results
 - Visualization Charts
 - Dashboard
- Discussion
 - Findings & Implications
- Conclusion
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EXECUTIVE SUMMARY



- To analyse data
- Methodology used
 - Data visualizations
 - Data analysis
- Summary of result with graph
- Summarize the research findings and their significance
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INTRODUCTION



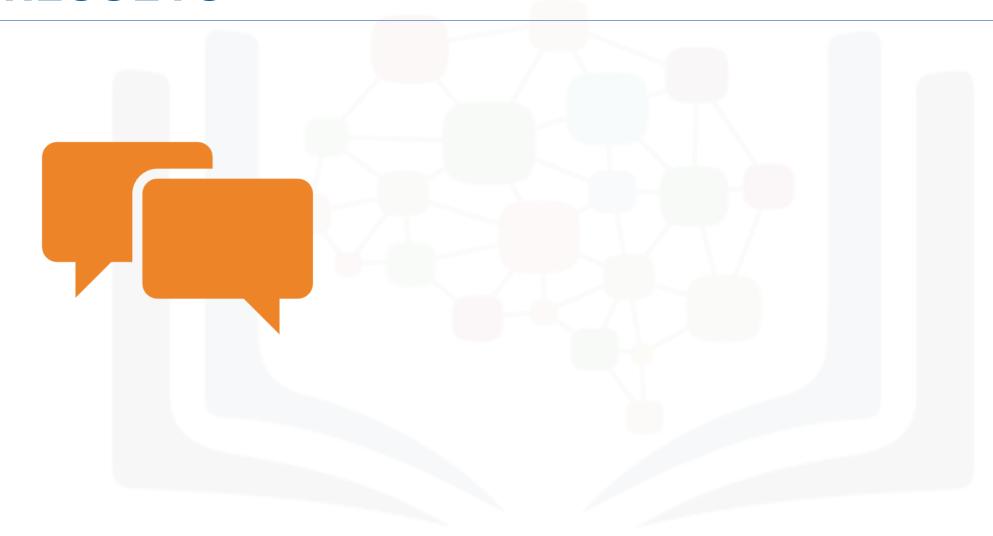
- We are to analyze programming language trends
- To analyze top databases in the world
- Trends to predict current future technologies to work with

METHODOLOGY



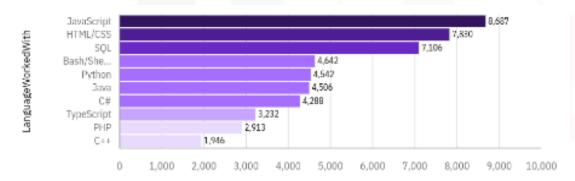
- Collect survey data & explore its content
- Web Scraping
- APIs.
- Request library.
- Data Wrangling
- Exploratory data analysis
- Analyzing data distribution.
- Handling outliers.
- Correlations.
- Data Visualization
- Highlight distribution of data, relationships, the composition and comparison of data.
- Dashboards

RESULTS



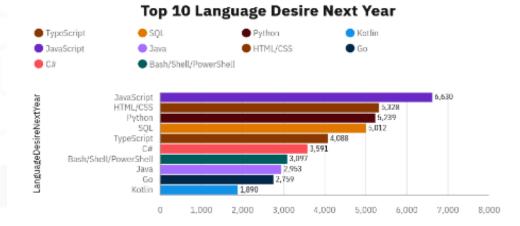
PROGRAMMING LANGUAGE TRENDS

Current Year



LanguageWorkedWith (Count)

Next Year



LanguageDesireNextYear (Count)

PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

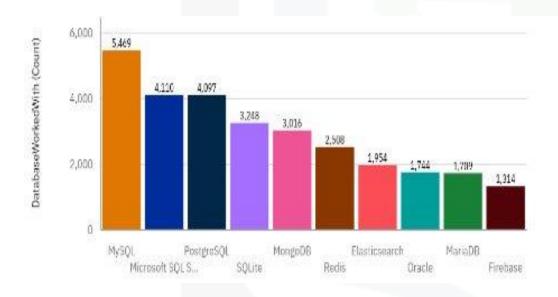
- Top language used is Javascript
- Top desirable language is also **Javascript**

Implications

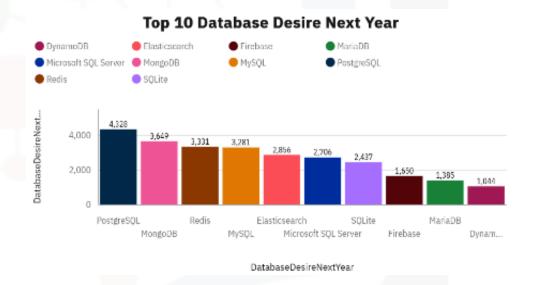
 Upcoming developers will try to master javascript

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- Top database to work with is MySql
- Desired database to learn is PostgreSql

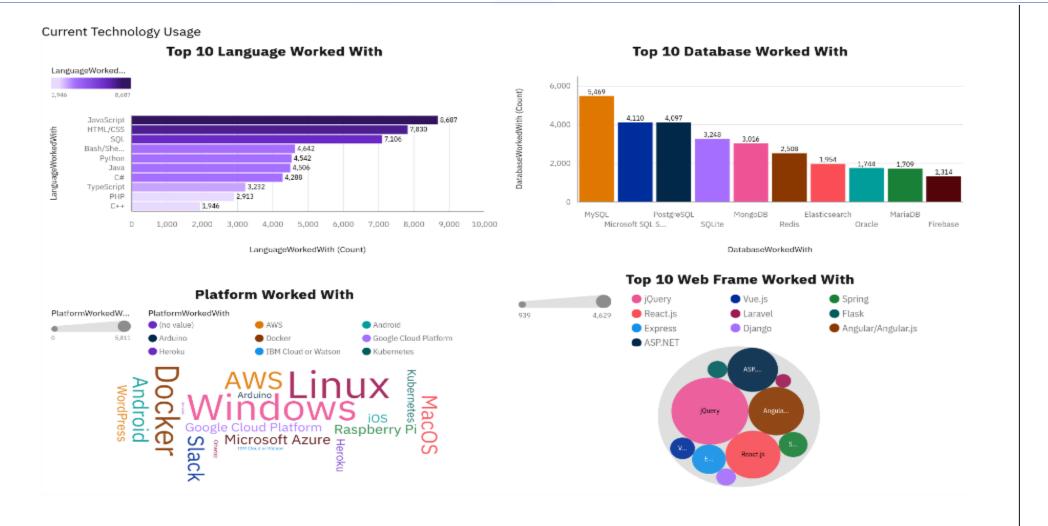
Implications

 People want to learn and expertise PostgreSql

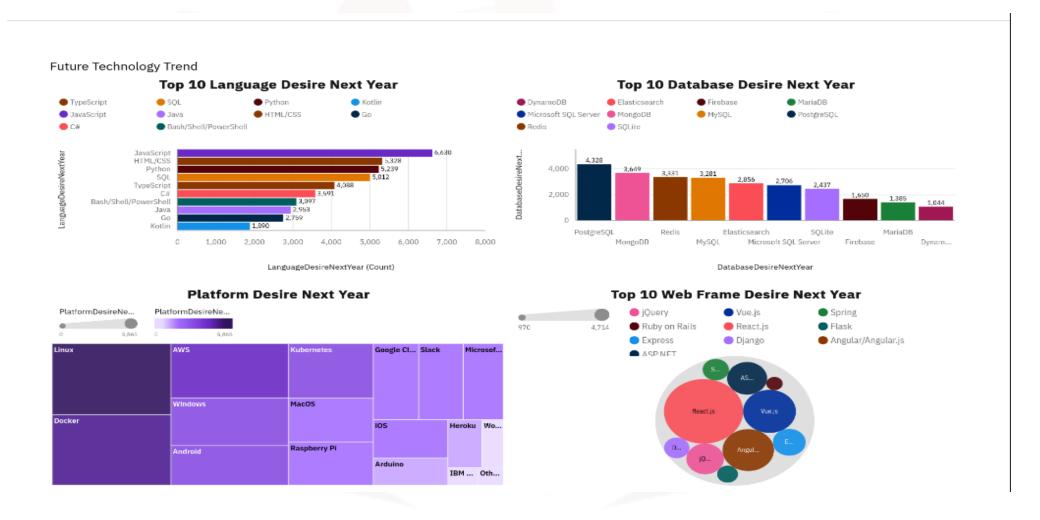
DASHBOARD



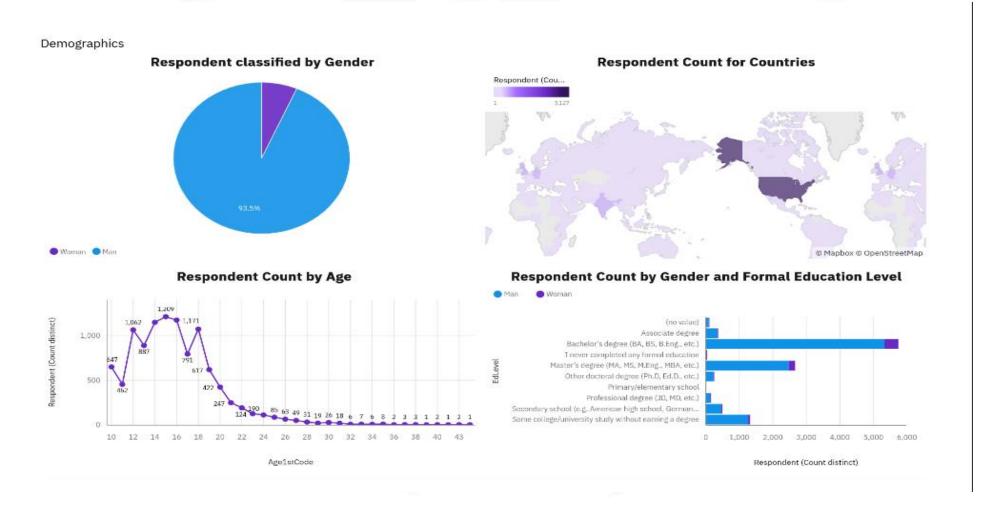
CURRENT TECHNOLOGY USED



FUTURE TECHNOLOGY TRENDS



DEMOGRAPHICS



DISCUSSION



OVERALL FINDINGS & IMPLICATIONS

Findings

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

Implications

- Global polarization of developers
- location and gender.
- Young developers without postgrad studies on its majority.

CONCLUSION



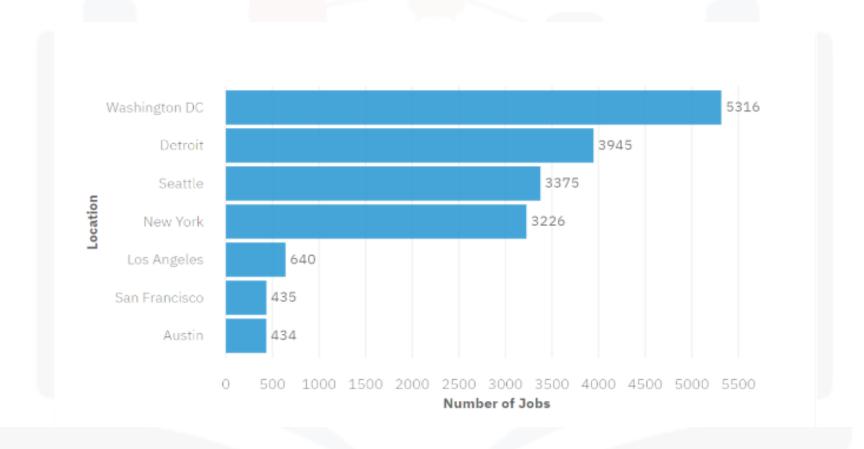
- Developers exhibit distinct characteristics.
- Understanding popularity trends across various tools, platforms, and languages is valuable.
- There's a need to enhance accessibility to this job market in developing countries.

APPENDIX



These analysis were done with Cognos

JOB POSTINGS



POPULAR LANGUAGES

