

Data Analysis

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OUTLINE



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

EXECUTIVE SUMMARY



- Insights about popular technologies, framework, database, and developing platforms
- Methodology
 - Data Collection, Cleaning
 - Data Analysis &
 - Data Visualizations
- Presenting the Results
- Discussion of the findings
- Concluding remarks

INTRODUCTION



- Technology changes every year
- Very important to get update with the latest tech
- Comparison between present and past technology trend
- Grouped into 4 parts
 - Top Language
 - Top Database
 - Top Platform
 - Top Webframe

METHODOLOGY



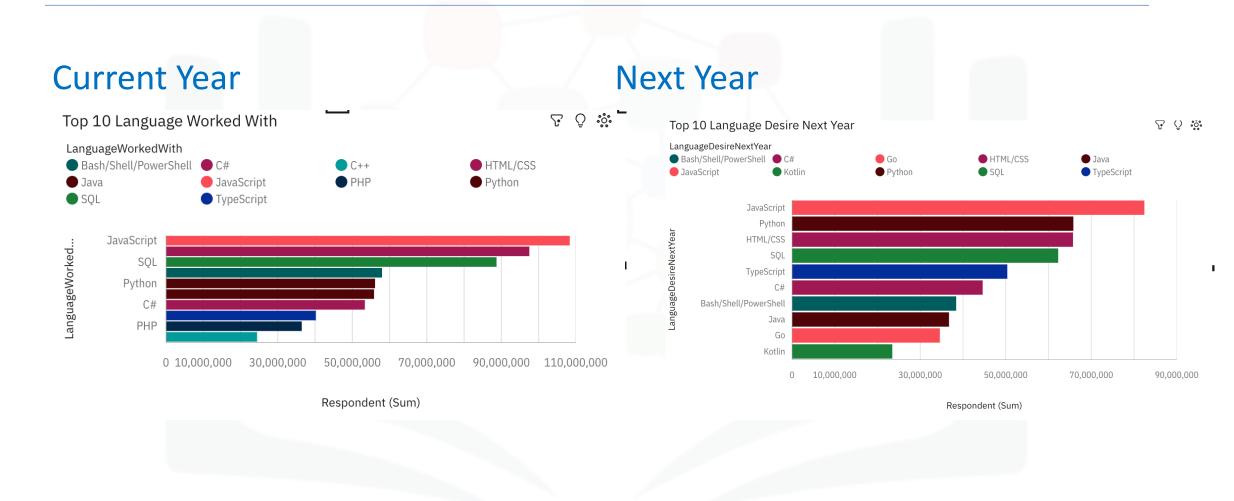
- State of the Art: Comparing current trend and future technology
- Data collection and Wrangling
- Exploratory data analysis
- Data visualizations
 - Distribution of data, relationship and comparisons
- Dashboards with IBM Cognos

RESULTS



- Results are grouped into 4 parts:
 - Top programming languages
 - Top Database trend
 - Top Platform trend
 - Top Web frame trend

PROGRAMMING LANGUAGE TRENDS



PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

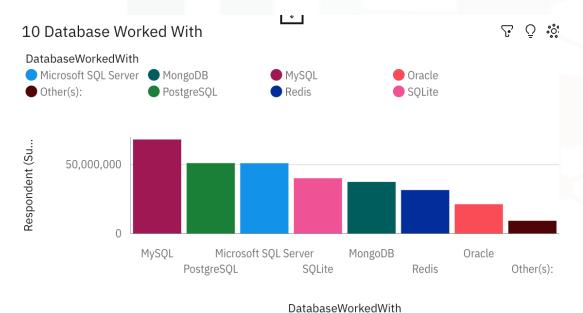
- JavaScript and HTML/CSS are top programming languages
- Python moves fast from 5th to 3rd position
- C++ and PHP are decreasing

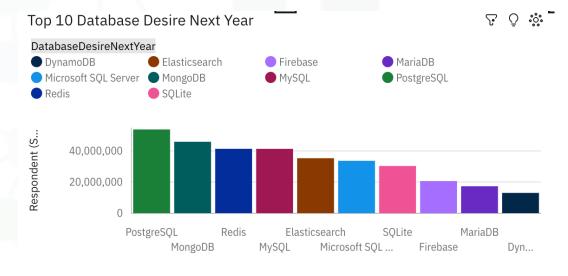
Implications

- Web programming languages still dominant in near future.
- Python is becoming popular
- C++, PHP ... are gradually decreasing

DATABASE TRENDS

Current Year Next Year







DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- MongoDB & Redis quickly moves towards top position
- PostgreSQL moves from No. 3 to No. 1
- MS SQL server drops to No. 5

Implications

- Open source database becomes more popular
- Databases are increasingly useful

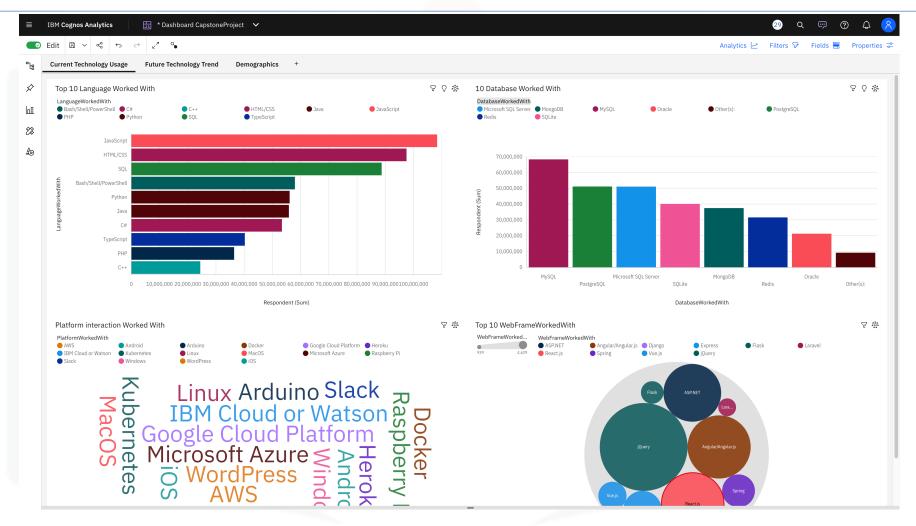
DASHBOARD



GitHub link:

https://github.com/delwarbhuyan/testrepo/blob/main/_%2 ODashboard%20CapstoneProject.pdf

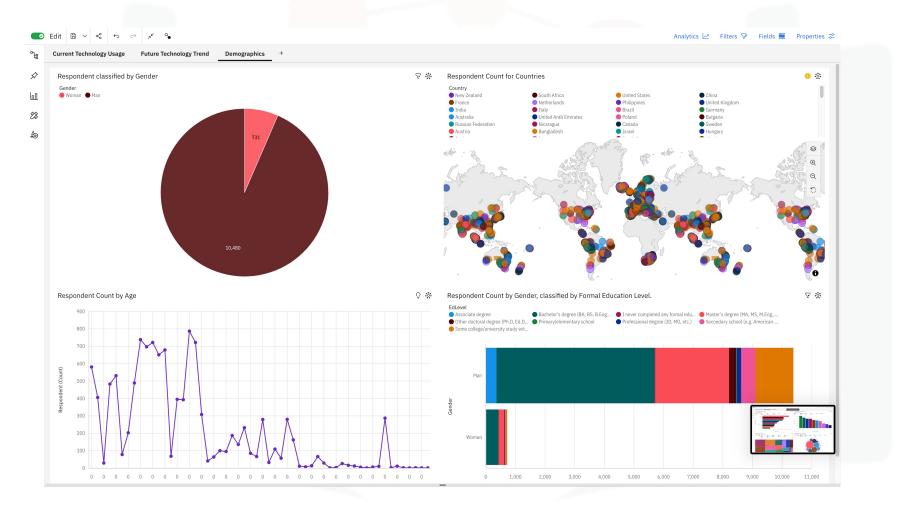
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



DISCUSSION



OVERALL FINDINGS & IMPLICATIONS

Findings

- JavaScript widely used
- TypeScript getting popular
- Most of the developers are young male
- Cloud-based platform moves top position

Implications

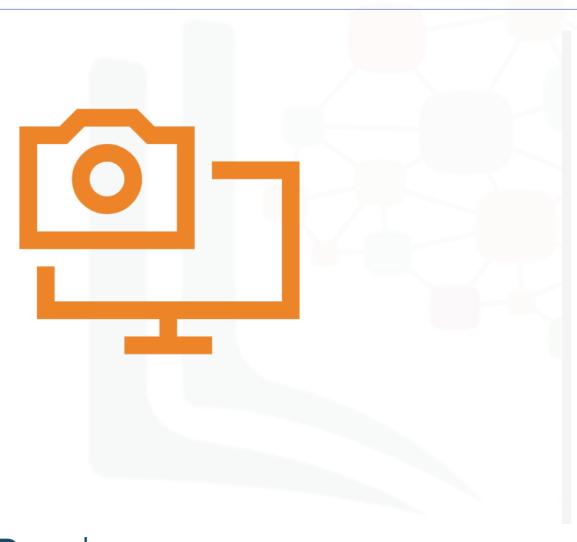
- JavaScript and TypeScript gaining followers
- Web based application is getting popular over the traditional application
- Cloud-based services become top choice for platform development

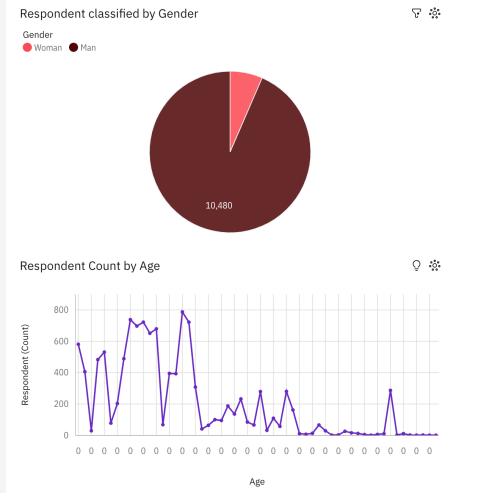
CONCLUSION



- Great overview of different tools, platforms and languages
- Very important to learn web-based language & non-relational database
- Cloud-based service getting popular for platform development

APPENDIX

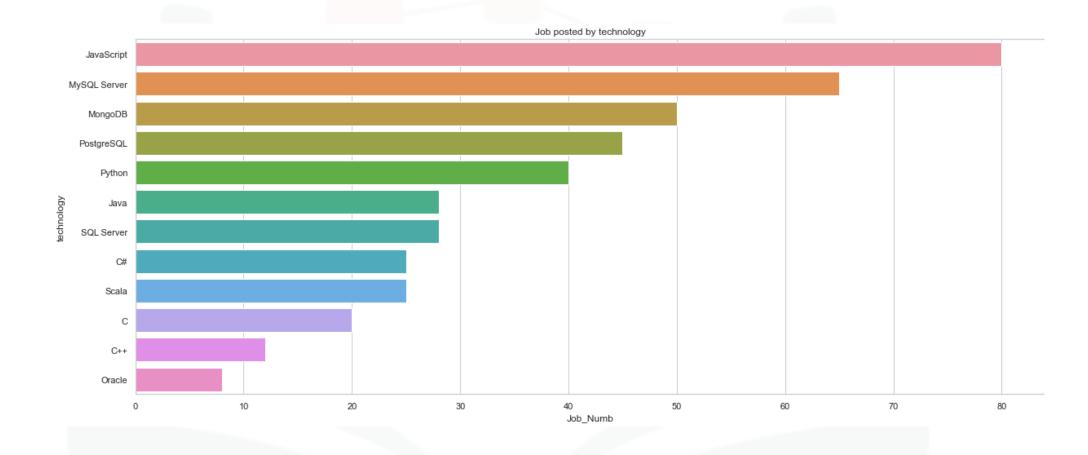








JOB POSTINGS



POPULAR LANGUAGES

