

TECHNOLOGIES TRENDING ANALYSIS

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OUTLINE



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



- Current Technology Usage for
 - Languages
 - Databases
 - Platforms
 - WebFrames
- Future Technology Trends for
 - Languages
 - Databases
 - **Platforms**
 - WebFrames
- In Demographics
 - Respondent classified by gender
 - Respondent count for countries
 - Respondent count by age
 - Respondent count by gender and classified by education level



INTRODUCTION



- Using the Stack Overflow Developer Survey 2019 data to create a dashboard.
 - Find Current Technology Usage
 - Future Technology Trends
 - In Demographics find the Classify the Respondent based on genders, countries, age and Education

METHODOLOGY



- 1: Data Collection
 - Collecting Data Using APIs
 - Collecting Data Using Webscraping
- 2: Data Wrangling
- 3: Exploratory Data Analysis
 - Distribution
 - Outliers
 - Correlation
- 4: Data Visualization
 - Visualizing Distribution of Data
 - Relationship
- 5: Dashboard
- 6: Presentation of Findings

RESULTS



PROGRAMMING LANGUAGE TRENDS

Current Year

Current Technology Usage

Top 10 LanguageWorkedWith.

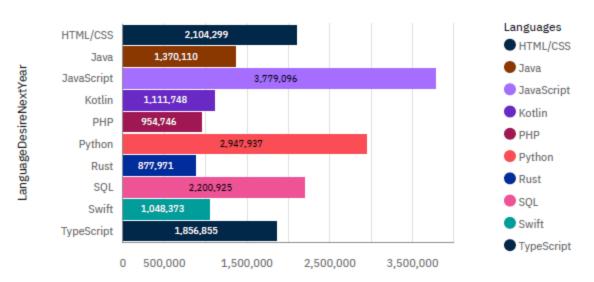


Respondent (Sum)

Next Year

Future Technology Trend

Top 10 LanguageDesireNextYear



Number of Respondent

PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- Javascript is the most demanding programming language
- Python, HTML/CSS and SQL are also trending programming language
- Great scope for typescript

Implications

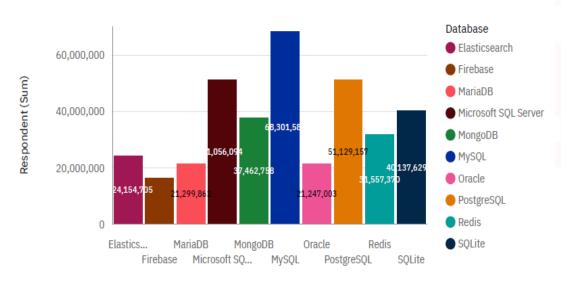
 Possible migration from Javascript to Typescript



DATABASE TRENDS

Current Year

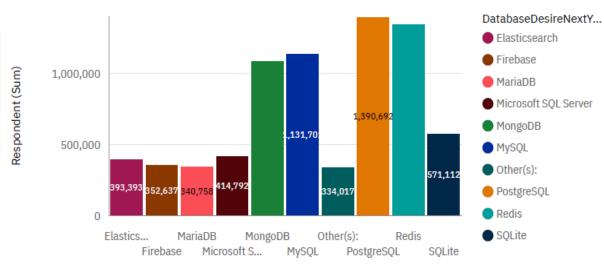
Top 10 DatabaseWorkedWith



DatabaseWorkedWith

Next Year

Top 10 DatabaseDesireNextYear



DatabaseDesireNextYear



DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- MySQL is most used database
- MongoDB, Redis and PostgreSQL will be more trending database
- Lack of interest in MS SQL Server

Implications

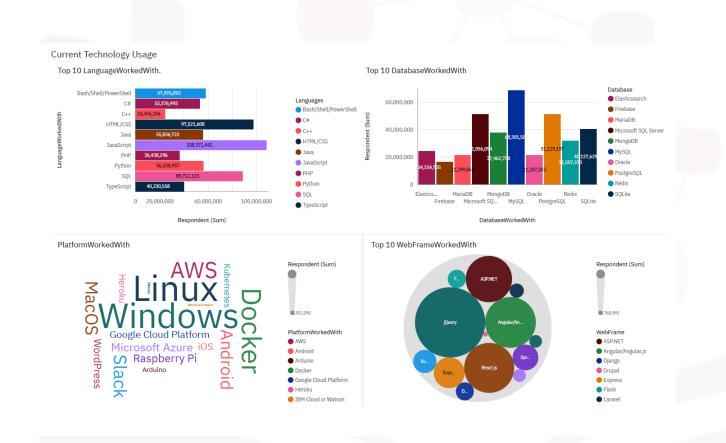
 MongoDB, Redis and PostgreSQL are most demanding database

DASHBOARD

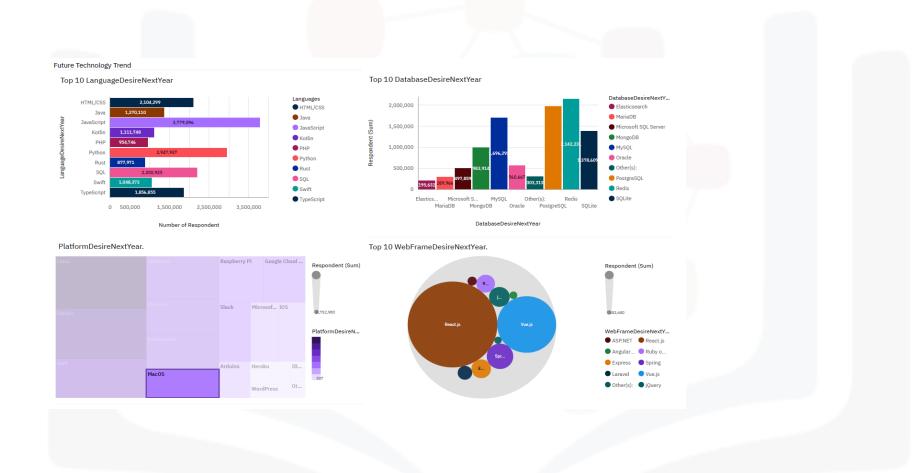


https://github.com/shanthivijayan/Capstone-Project/blob/main/Capstone Project Cognos Final.pdf

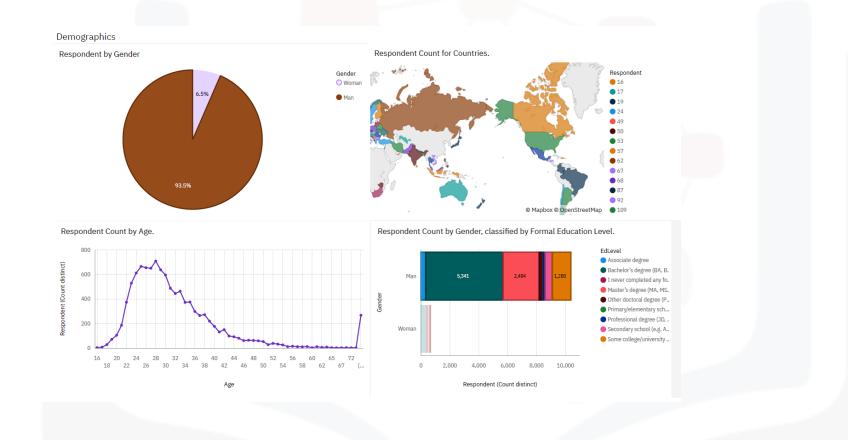
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



DISCUSSION



 New technologies constantly emerges to leading changes in demand

OVERALL FINDINGS & IMPLICATIONS

Findings

- Trends and demands fluctuates based on new technologies
- Javascript Widely used programming language
- Over 90% are Male developer

Implications

- IT professional should learn new technologies
- Javascript and Typescript are most demanding web technology language

CONCLUSION

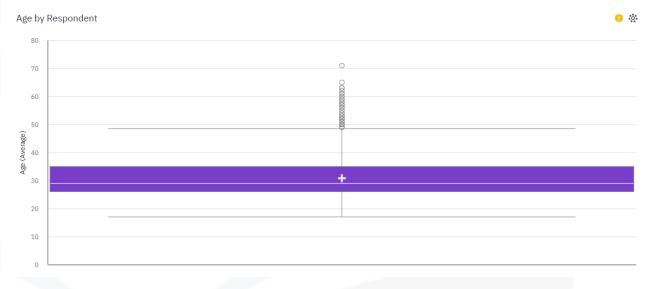


- New technologies lead in trend and demand
- Most of the developers are Male
- Javascript and Typescript are most demanding language.
- PostgreSQL is the most demanding database.

APPENDIX

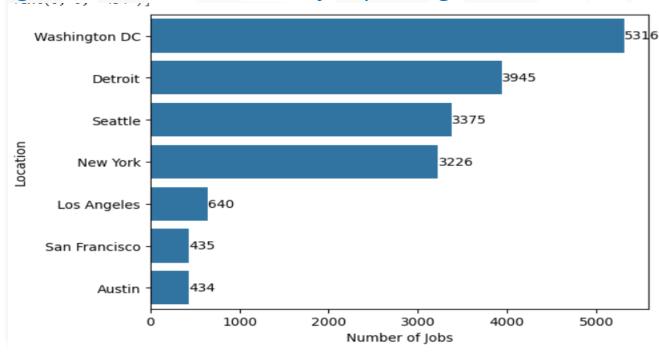


 Include any relevant additional charts, or tables that you may have created during the analysis phase.



JOB POSTINGS

In Module 1 you have collected the job posting data using Job API in a file named "jobpostings.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.

