



Capstone Project Presentation

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OUTLINE



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

EXECUTIVE SUMMARY



Goals for data contextualization and analysis;
description of the methodology;
data collection;
data analysis;
and data visualisations

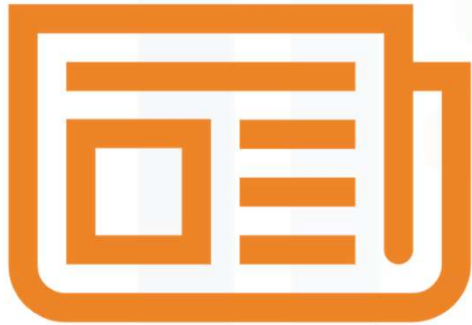
- A results presentation bolstered by trends and graphs
- A discussion of the general conclusions and the consequences for the previously revealed results.
- The final analysis of the completed research contextualization

INTRODUCTION



- This survey aims to gather insights from developers worldwide.
- One common challenge experienced by developers is the uncertainty surrounding the choice of programming languages in high demand. This survey seeks to characterize the diverse community of developers globally and explore their perspectives on language preferences and trends.

METHODOLOGY



- • Collect survey data and explore its content using webscraping etc
- • Data Mungling
- • Exploratory data analysis
- • Data visualization
- • Dashboards

RESULTS

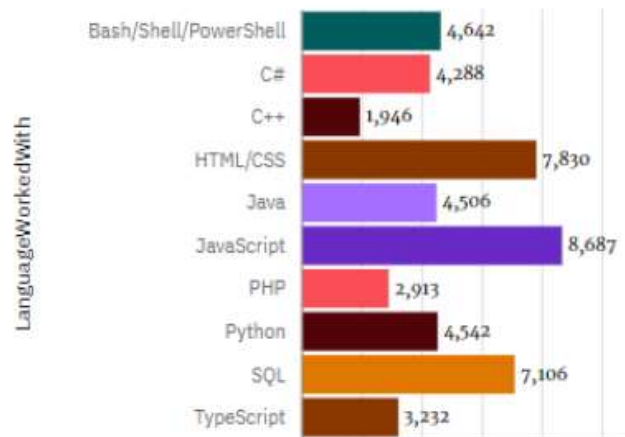


IBM Developer

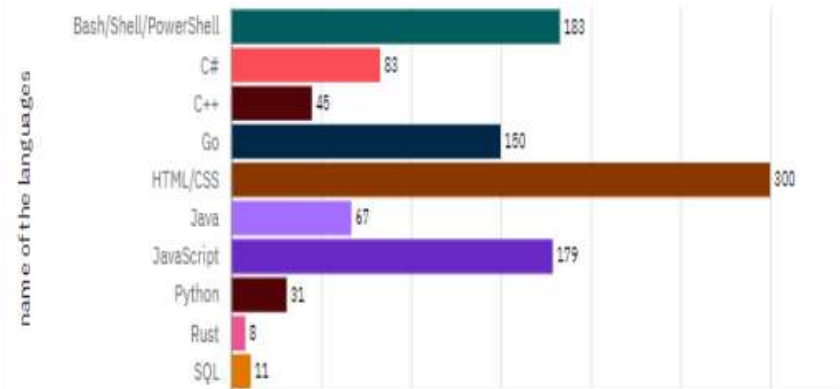
SKILLS NETWORK 

PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

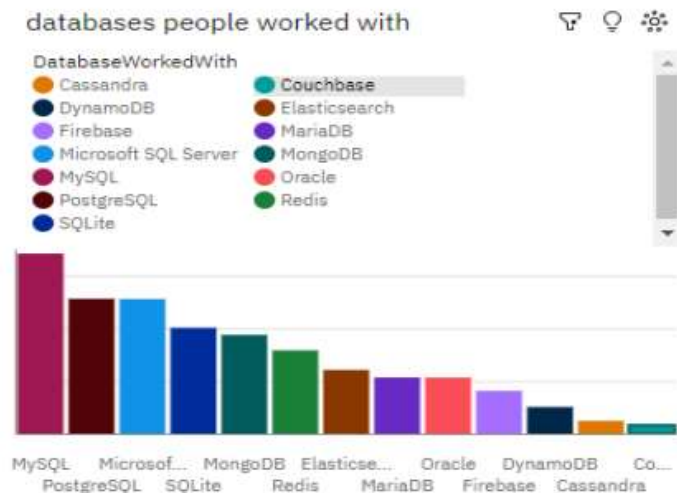
- JavaScript is the most preferred language.
- C++ is least liked by developers.
- HTML/CSS is the second most preferred language.

Implications

- More developers may switch from JavaScript to HTML/CSS in the future.
- The evolving landscape of web development tools and frameworks could influence developers' language preferences.
- As technology continues to advance, staying informed about emerging languages and trends becomes crucial for developers worldwide.

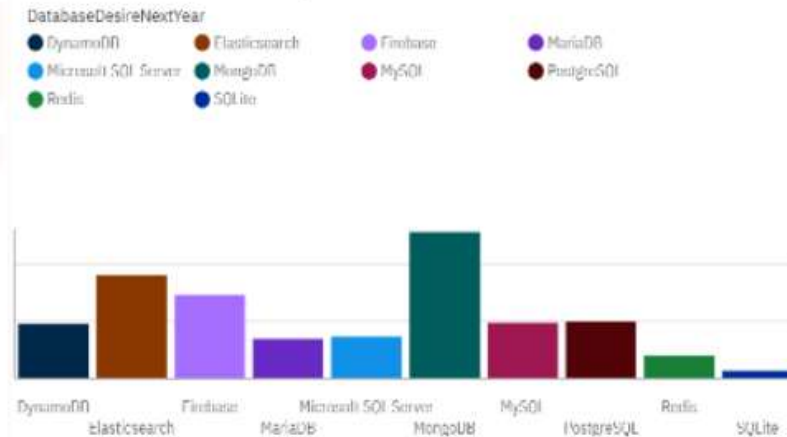
DATABASE TRENDS

Current Year



Next Year

Top 10 databases desire next year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- MySQL is the most preferred database for the developers.
- The usage of MySQL and PostgreSQL can be same in the future

Implications

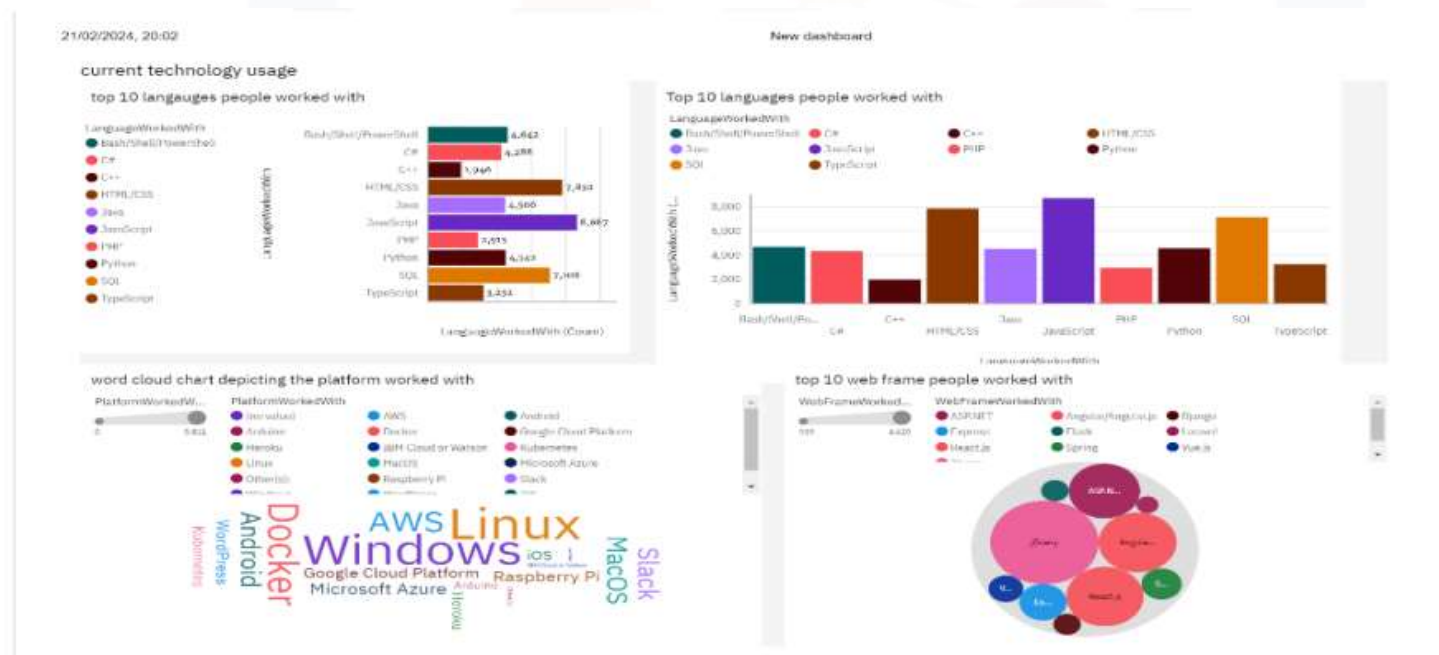
- Developers will shift to MongoDB from MySQL, driven by the increasing popularity of NoSQL databases and the need for scalable and flexible data management solutions.
- This transition may lead to a learning curve for developers as they adapt to the differences in database structure and query languages between MongoDB and MySQL.
- The implications extend beyond individual developer choices, potentially impacting industry standards and the broader ecosystem of applications and services relying on these databases.

DASHBOARD

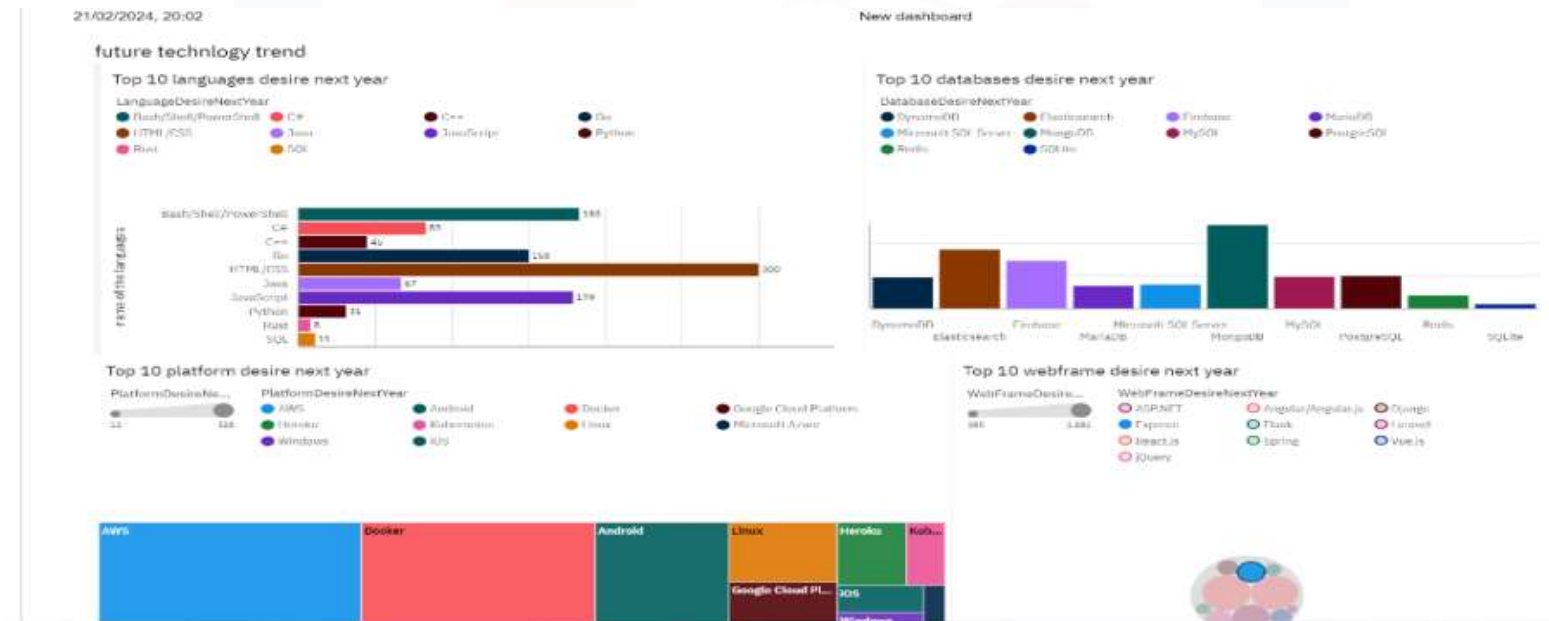


<The GitHub link of the Cognos dashboard goes here.>

DASHBOARD TAB 1



DASHBOARD TAB 2

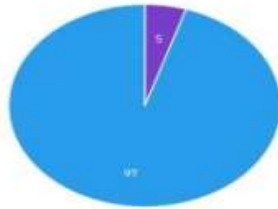


DASHBOARD TAB 3

Tab 1

Respondent by Gender

Gender
Woman Man



respondent by age

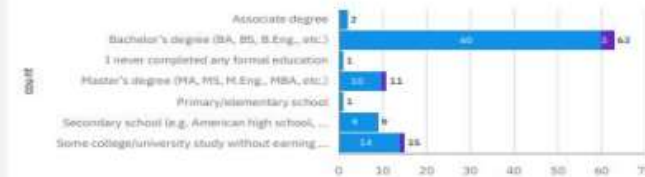


Respondent count by countries



formal education level as per gender

Gender
Man Woman



DISCUSSION



OVERALL FINDINGS & IMPLICATIONS

Findings

- Most developers are males
- Developers are mostly located in developed countries.

Implications

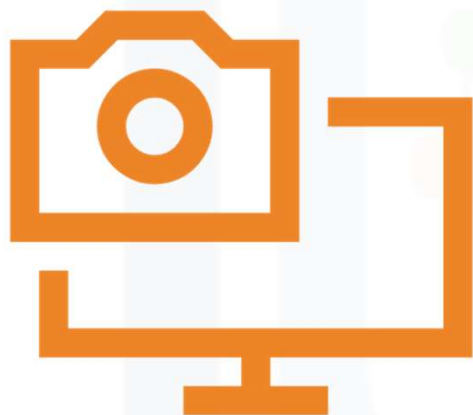
- The global polarization of developer location and gender underscores the importance of fostering inclusivity and diversity within the tech industry, prompting a need for targeted initiatives to bridge gaps and promote equal opportunities
- The prevalence of individuals with a Bachelor's degree suggests a foundational educational background within the developer community. This underscores the significance of continuous education and upskilling to navigate the rapidly evolving technological landscape and maintain professional relevance.
- Acknowledging and addressing the disparities in location and gender can lead to a more equitable distribution of talent and perspectives in the developer community, fostering innovation and creativity on a global scale.

CONCLUSION



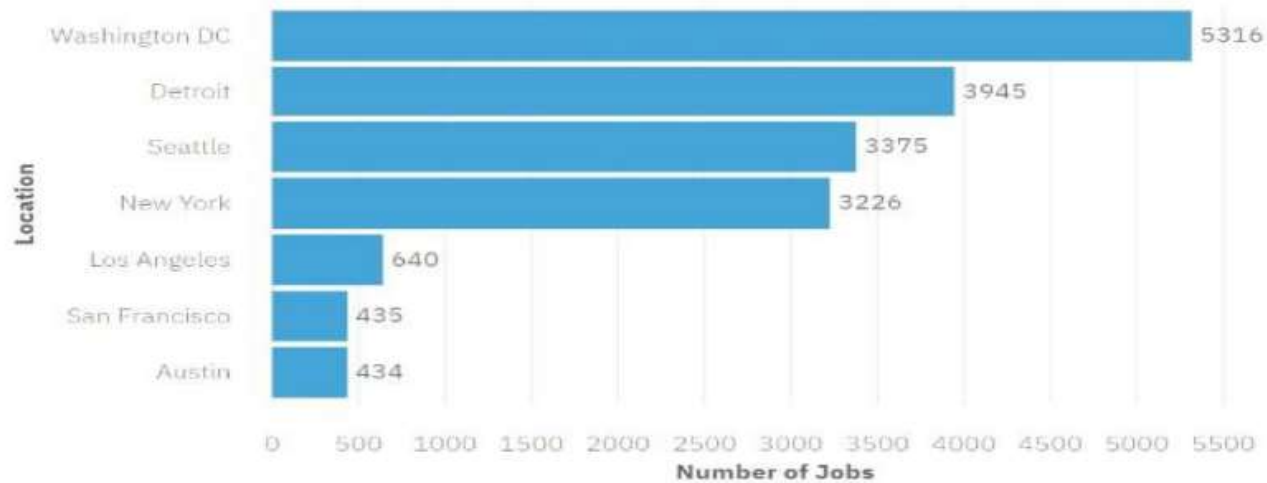
- A comprehensive understanding of popularity trends across various tools, platforms, and programming languages can provide valuable insights into the evolving landscape of technology, assisting developers in making informed decisions about their skill development and project choices.
- Recognizing these trends enables developers to stay ahead in the competitive tech industry, ensuring that their skillset aligns with the demands of the market and potential job opportunities.
- By staying attuned to popularity trends, developers can strategically plan their learning paths, maximizing their efficiency and focusing on technologies that are in high demand, ultimately enhancing their professional growth and staying relevant in the dynamic field of software development.

APPENDIX

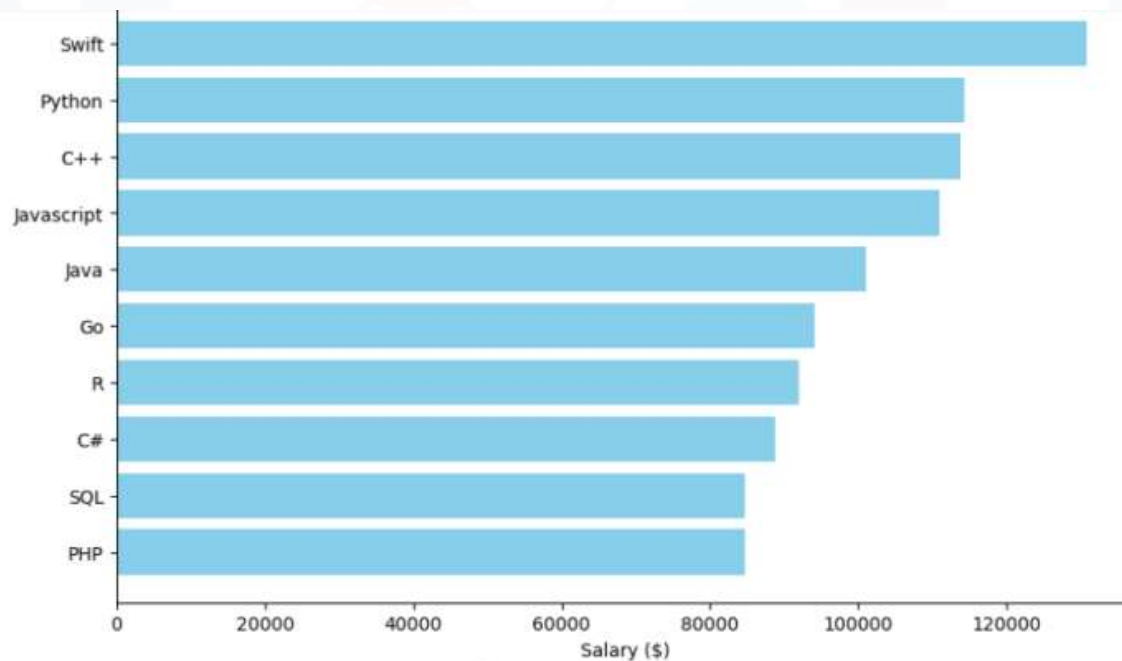


- Include any relevant additional charts, or tables that you may have created during the analysis phase.

JOB POSTINGS



POPULAR LANGUAGES



AGE DISTRIBUTION BOXPLOT

