

# **CAPSTONE PROJECT**

MICHEAL LUKWAGO 2022-12-07

## OUTLINE



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

# **EXECUTIVE SUMMARY**



- Programming Language Trends
- Database Trends
- Discussions
- Conclusion
- Appendix

# INTRODUCTION



- Methodology
- Results
- Dashboards
- Discussions
  - findings
  - Implications

# **METHODOLOGY**



- Dashboard
- Boxplot
- Histogram
- Bar charts
- Data sources:
  - https://cf-courses-data.s3.us.cloud-objectstorage.appdomain.cloud/IBM-DA0321EN-SkillsNetwork/LargeData/m2 survey data.csv
  - https://cf-courses-data.s3.us.cloud-objectstorage.appdomain.cloud/IBM-DA0321EN-SkillsNetwork/labs/datasets/Programming\_Languages.html

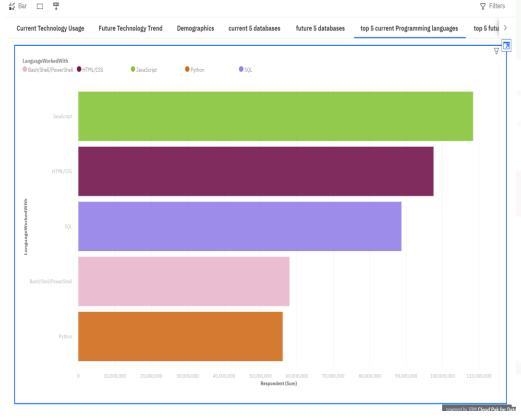
## **RESULTS**

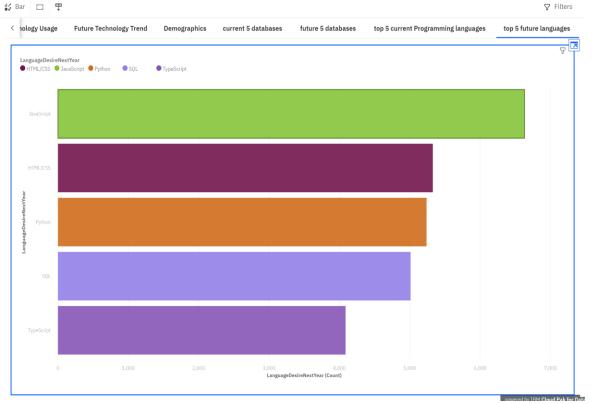
- Most of our respondents desire Javascript and Html/CSS
- Few of the respondents are currently using PHP or C++.
- In the future we estimate that very few respondents will use Go and Kotlin.
- Most respondents are currently working with MySQL
- Data shows that in the future PostgreSQL will be most desired.
- Firebase and Elastic search are barely considered by most respondents.
- Dashboard shows us top languages, webframeworks and platforms preferred by most respondents.
- Its evidently clear that the majority of the respondents identify as man as depicted by the map.

## PROGRAMMING LANGUAGE TRENDS

#### **Current Year**

#### **Next Year**





## PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

### **Findings**

- Javascript and Html/CSS are most used.
- PHP,C++ are currently not favored.
- Go and Kotlin will be less desired in the future.

#### **Implications**

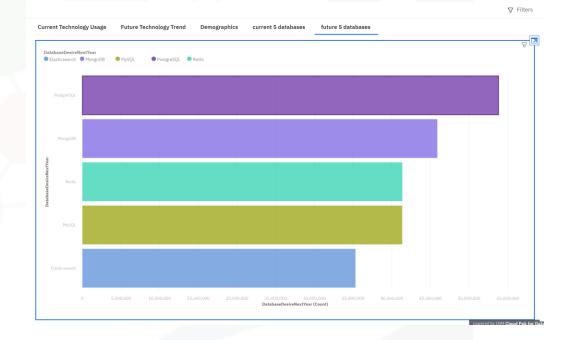
- Most of our respondents desire Javascript and Html/CSS
- Few of the respondents are currently using PHP or C++.
- In the future we estimate that very few respondents will use Go and Kotlin.

## DATABASE TRENDS

#### **Current Year**



#### **Next Year**



# DATABASE TRENDS - FINDINGS & IMPLICATIONS -

## **Findings**

- Currently MySQL is most worked with
- In the future PostgreSQL will be mostly desired
- Firebase and Elastic search are barely used.

### **Implications**

- Most respondents are currently working with MySQL
- Data shows that in the future PostgreSQL will be most desired.
- Firebase and Elastic search are barely considered by most respondents.



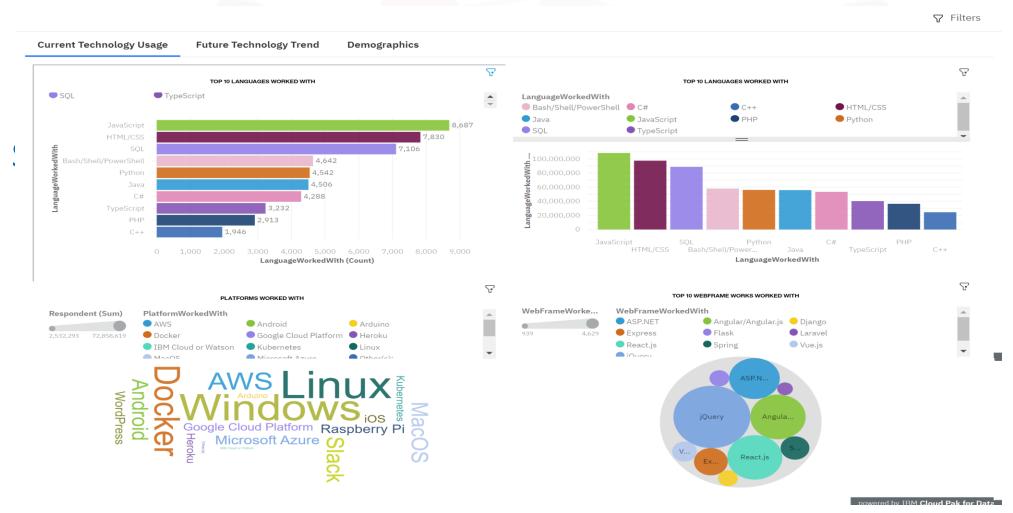
## **DASHBOARD**



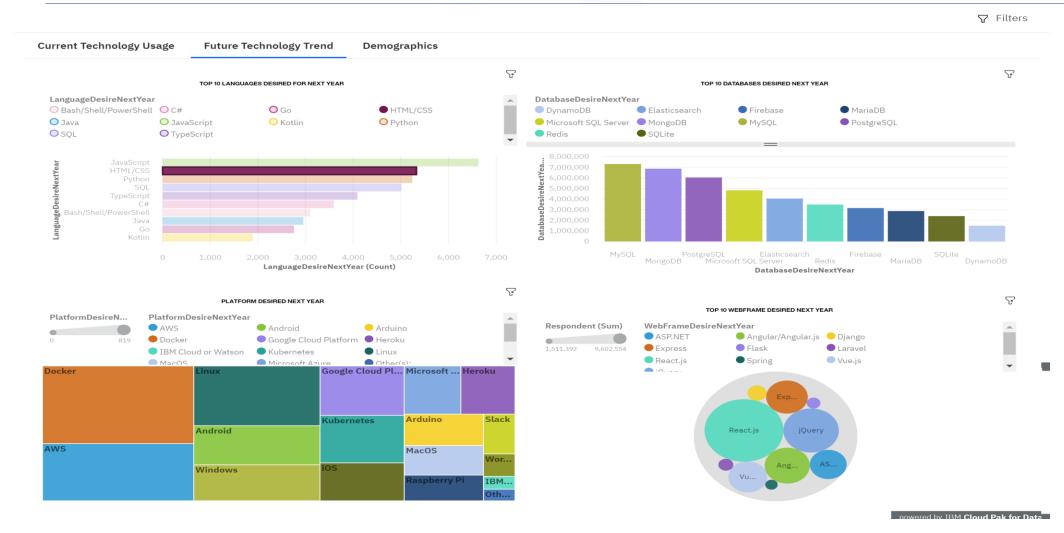
https://dataplatform.cloud.ibm.com/dashboards/d613f444-390b-4ce5-aad9-

aef028a3de24/view/610aa4177d836de243e6e2e407cf2f017 8637059b3bb845289877b495c637997a93f1590c82b4e5d89 450231f0ef1a59cb

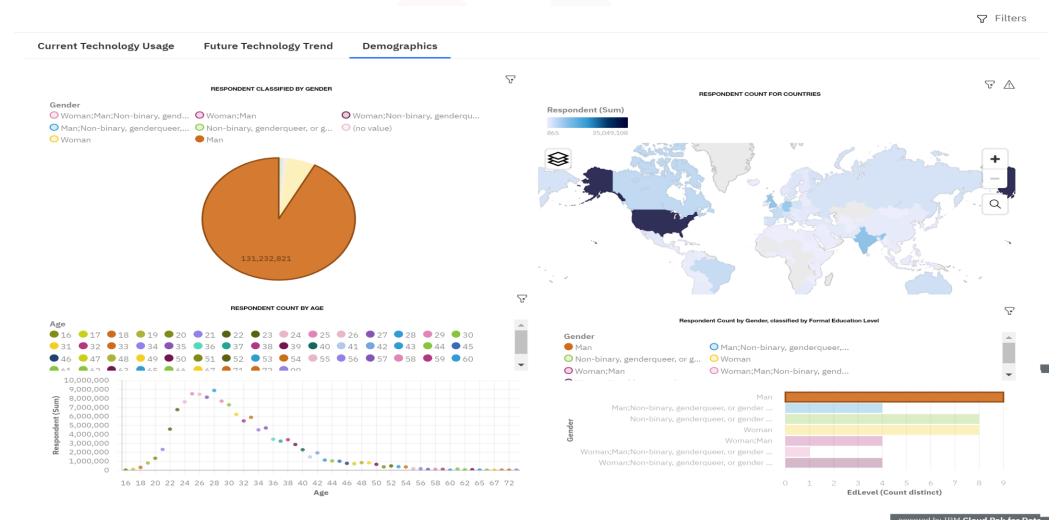
## DASHBOARD TAB 1



## DASHBOARD TAB 2



## DASHBOARD TAB 3







## **DISCUSSION**



- Dashboard shows us top languages, webframeworks and platforms preferred by most respondents.
- Its evidently clear that the majority of the respondents identify as man as depicted by the map.

## OVERALL FINDINGS & IMPLICATIONS

## **Findings**

- Javascript is most worked with
- Most desired database is MySQL
- There are more respondents in the united states than any other country

#### **Implications**

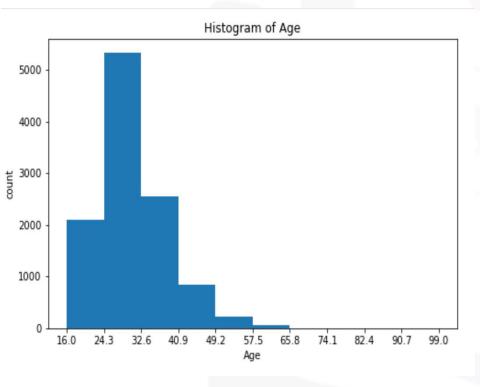
- More people are taking on **Javascript**
- MySQL,Docker,javascript and React.js have gained popularity.
- The majority of the respondents identify as male.

## CONCLUSION

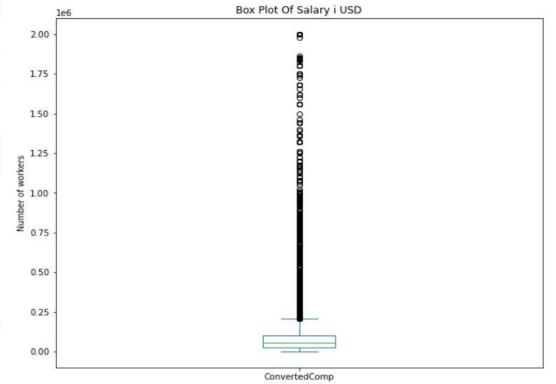


- Javascript is the most preferred language.
- MySQL is the most preferred database.
- Most respondents are familiar with
- Majority of the respondents identify as man.

## **APPENDIX**

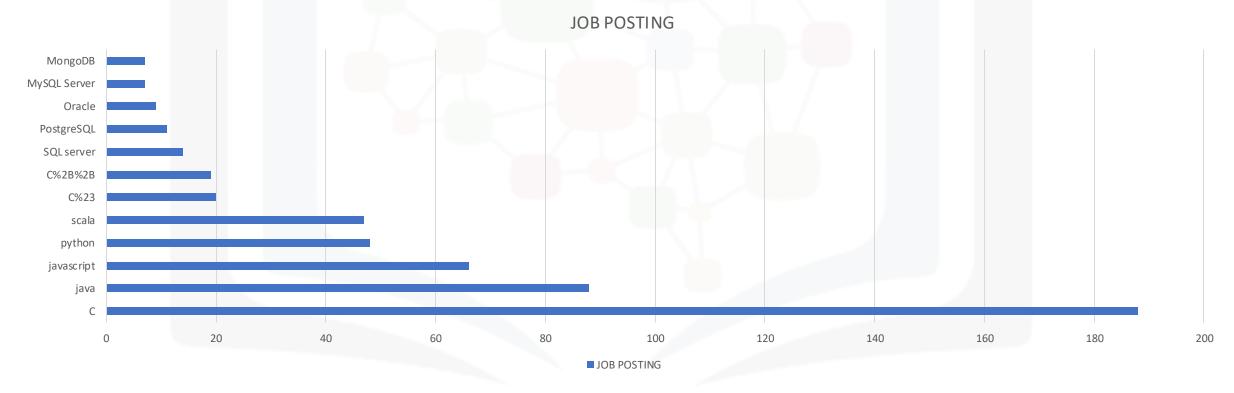


 Include any relevant additional charts, or tables that you may have created during the analysis phase.



## JOB POSTINGS

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

