

FINDINGS REPORT CAPSTONE PROJECT

DANIEL SILVA 03/25/2022

OUTLINE



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

EXECUTIVE SUMMARY



- We worked with a dataset composed of 90,000 responses from software professionals around the world, making it possible to reflect the real-world scenario.
 - The main points of interest are which languages, databases and frameworks are the most used by the respondents nowadays and which knowledge are desired by then for the coming years.

INTRODUCTION



- PROGRAMMING LANGUAGE TRENDS
- DATABASE TRENDS
- DASHBOARDS
 - TOP 10s;
 - Respondents by Country;
 - Respondents by Gender;
 - Respondents by AGE;

METHODOLOGY



Dataset Steps:

- 1) Data Wrangling (Removing Duplicates, Imputing Missing Values)
- 2) Data Analysis (Handling Outliers, Correlation)
- 3) Data Visualization (Visualizing Relationship, **Composition and Comparison of Data**

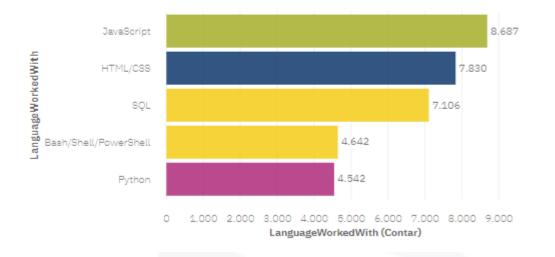
RESULTS

- The data used on the charts are from the already discussed Dataset.
- The RELEVANT data will be shown in different charts, like:
 - PIE CHARTS
 - STACKED CHARTS
 - LINE CHARTS
 - BAR CHARTS
 - BUBBLE CHARTS

PROGRAMMING LANGUAGE TRENDS

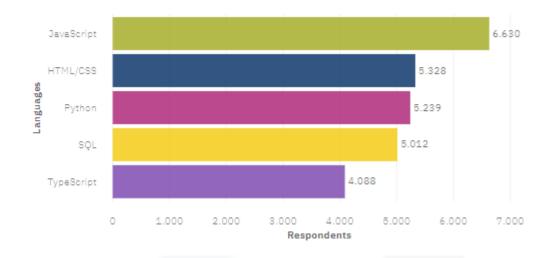
Current Year

Top 5 Languages this Year



Next Year





PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- Javascript and HTML/CSS are the most used programming languages today and the most desired by programmers in the near future.
- The situation of Python is approximately the same as the both above

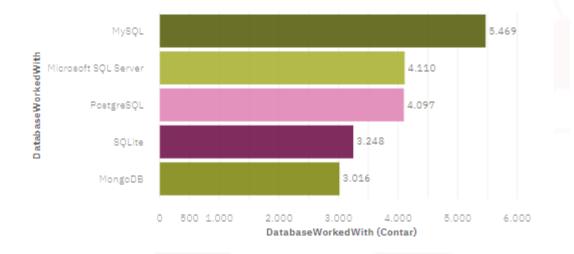
Implications

 Bash/Shell/PowerShell are used today, but programmers want to learn more about TypeScript in the near future

DATABASE TRENDS

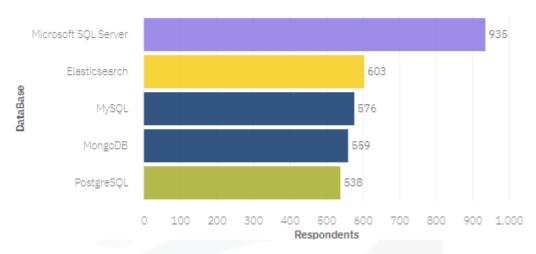
Current Year

Top 5 Databases this Year



Next Year

Top 5 Databases Desired Next Year



댱

DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- MySql is the most used database by respondents, followed by Microsoft SQL Server and **PostgreSQL**
- In the near future respondents want to learn more about Microsoft SQL Server and Elasticsearch

Implications

 MySQL has lost space among respondents, while Microsoft SQL Server has been increasingly requested



DASHBOARD



Permanent link:

https://eu-

de.dataplatform.cloud.ibm.com/dashboards/1e63d1b4-d367-

4ca8-b823-

2652b19e1262/view/5411e43b21f1298d7cb5dce407cd24047b

36200ee0bbd65687d47b4908627097f06f1596c82d1f5b894501

63f1bf400a9a

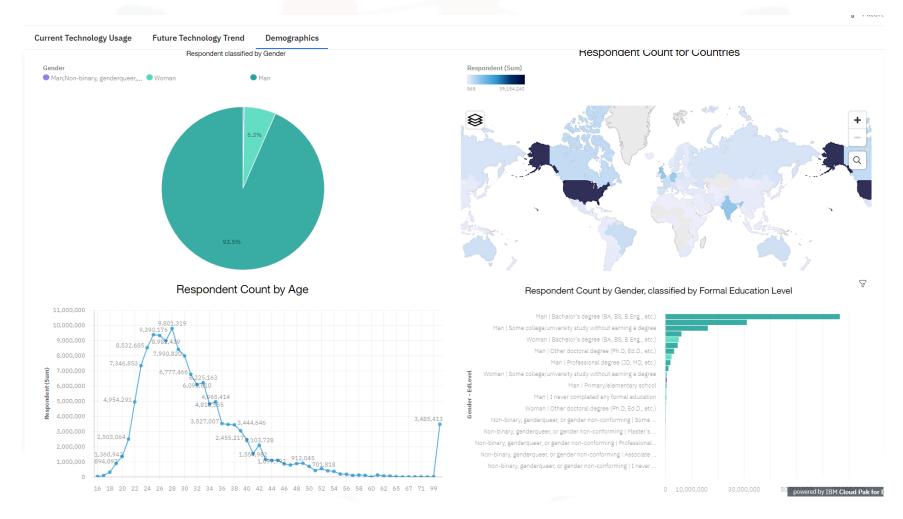
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3





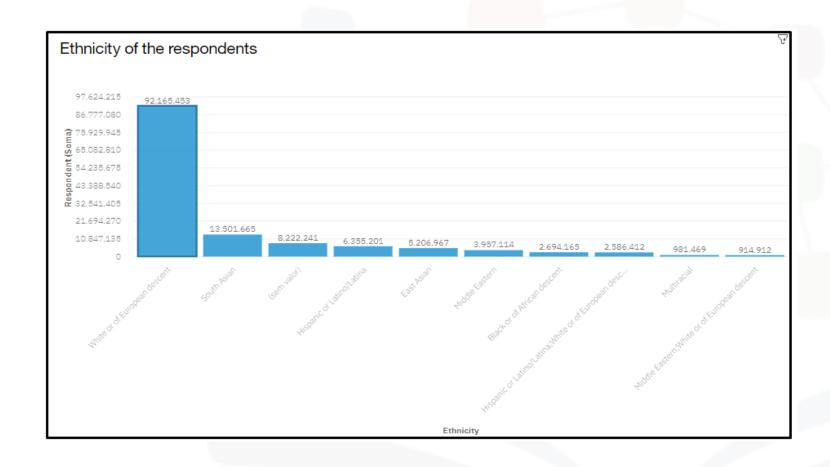


DISCUSSION



 With the data, we can ask ourselves what is the ethnicity of the respondents

OVERALL FINDINGS & IMPLICATIONS



Findings

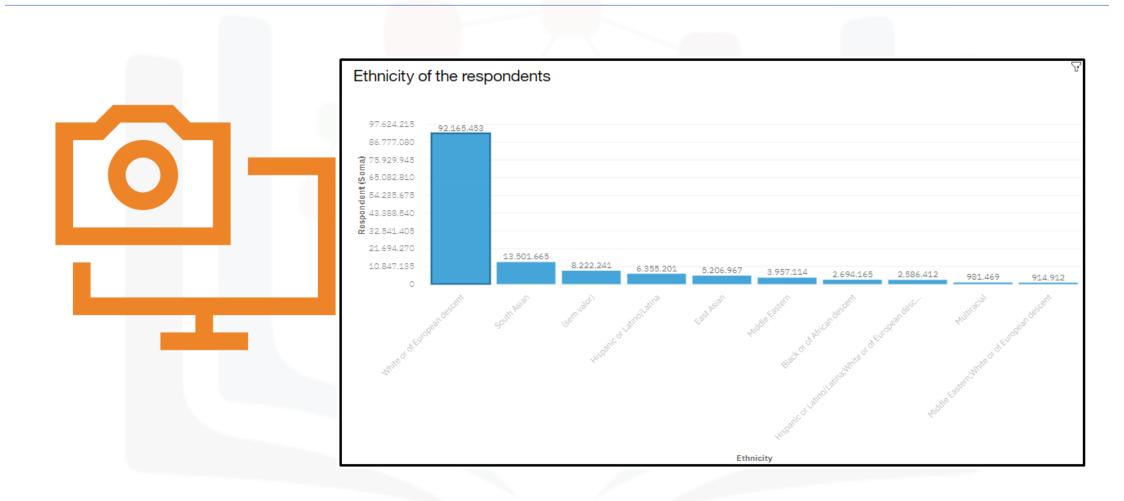
• 67.5% of respondents consider themselves to be white or European descendent, while only 2.0% of respondents consider themselves to be black

CONCLUSION



 The main platforms, languages and data bases are still the most requested and desired for the near future

APPENDIX



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.

