

#### IBM Data Analyst Capstone Project

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## OUTLINE



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

### **EXECUTIVE SUMMARY**



- Data framing and analysis goal.
- Methodology and description
  - Data gathering
  - Data analysis
  - Data visualization
- Result presentation, support with graph and trends
- Discussion of overall findings
- Final conclusion on the result

### INTRODUCTION



- Stack Overflows annual developer Survey is the lasrget survey
- Results don't represent everyone in the developer community evenly
- Nearly 90000 developers
- Trends to predict where the developers are going
- Characterization of the developers around the globe.

### **METHODOLOGY**



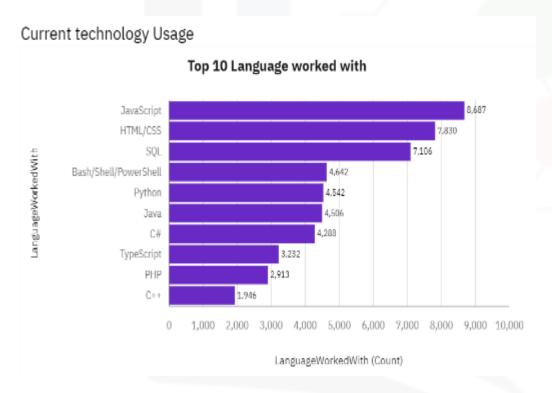
- Data Wrangling
- Exploratory Data analysis(EDA)
- **Data Visualization**
- Dashboards
- Collect survey data and explore it's content
  - Web Scrapping
  - API

# **RESULTS**

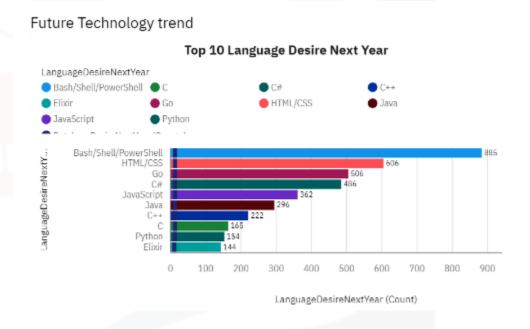


### PROGRAMMING LANGUAGE TRENDS

#### **Current Year**



#### **Next Year**



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

### **Findings**

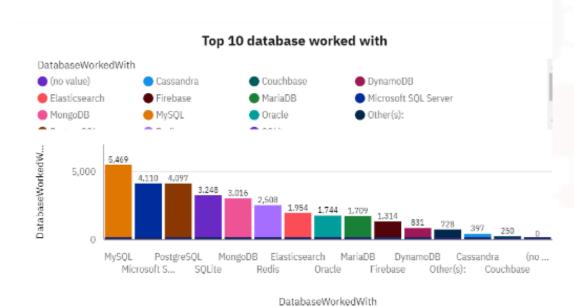
- JavaScript leading
- Bash shell will lead
- Python possible leading language

#### **Implications**

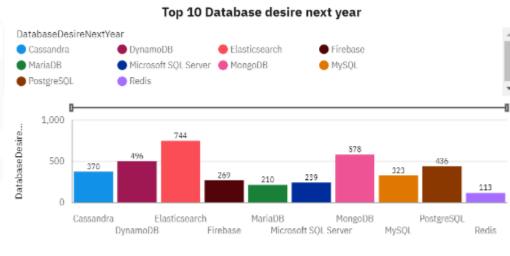
- Possible developer migration to Python
- Inclined to Data analysis jobs
- Next trend will be web development

### DATABASE TRENDS





#### **Next Year**



DatabaseDesireNextYear

# DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

### **Findings**

- SQL server most demanding DB
- Pistgre SQL will lead

#### **Implications**

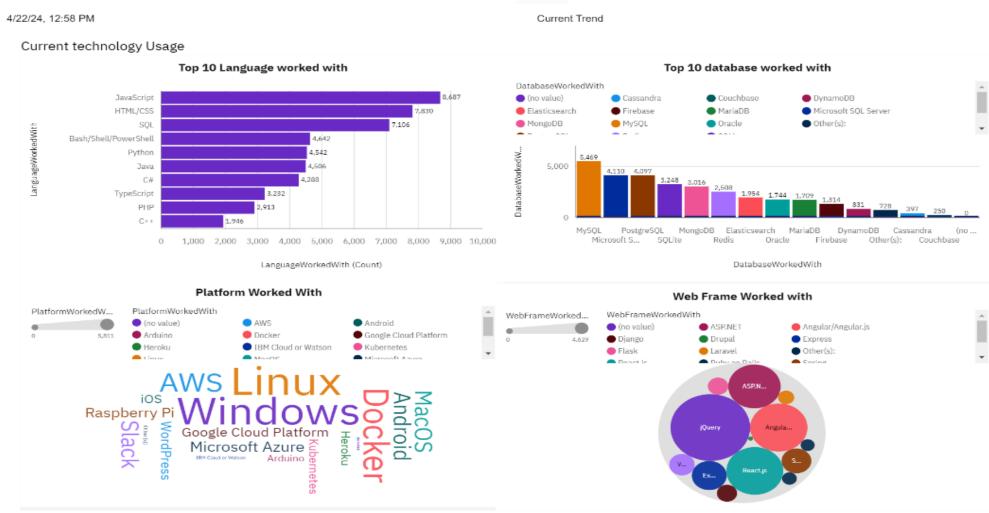
- MangoDB will lead the market
- PostGre will dominate SQL

### **DASHBOARD**



https://github.com/SudhaRaniD/Dashboard\_IBMCognos/blo b/main/Building%20a%20Dashboard%20with%20IBM%20Co gnos%20Analytics.pdf

### DASHBOARD TAB 1

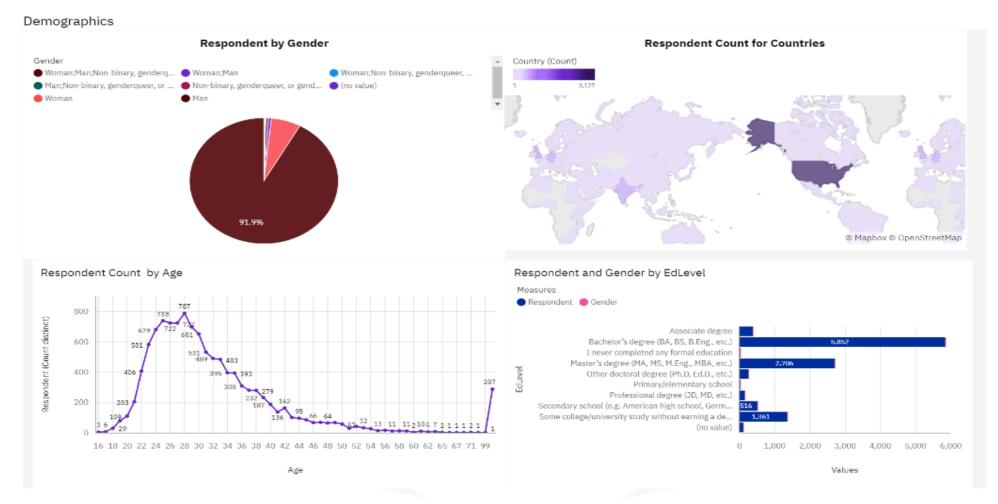


### DASHBOARD TAB 2



## DASHBOARD TAB 3

4/22/24, 12:58 PM Current Trend



# **DISCUSSION**



### OVERALL FINDINGS & IMPLICATIONS

### **Findings**

- JavaScript Widely used and TypeScript getting popular
- SQL and Pythan are in good position
- Developers mostly located the developed countries

#### **Implications**

- Typescript will capture the market
- Mangodb will lead and more python developers
- Young developer with postgrad on it's majority

### CONCLUSION



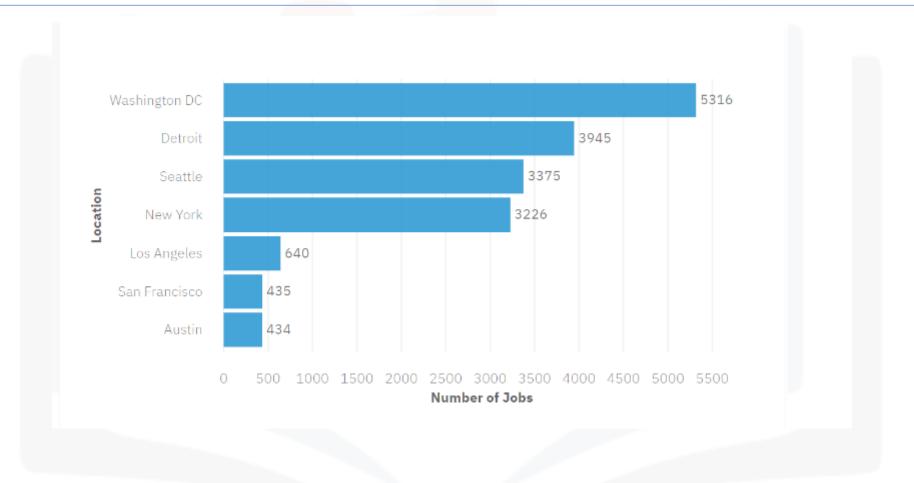
- Time to develop under developed countries with some kind of training to make best developers and professionals.
- Need to encourage the female developers
- Quick adoption of new technology to avoid the unemployment in the tech field as the technologies are keep on changing.

### **APPENDIX**



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

## JOB POSTINGS



## POPULAR LANGUAGES

