

Language and Technology Trend with final analysis Presentation

Rahul Shaji 02.06.2024

# OUTLINE



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

### **EXECUTIVE SUMMARY**



- How trends in programming languages and technology looks like?
- Demographic Survey
- Future Trends
- Gender role in the trends

### INTRODUCTION



- To Identify current trends and future predictions in languages and technology.
- To understand the skill requirements.
- How the current trends varies according to languages and genders?
- What are the top languages and databases today?

# **METHODOLOGY**



- Data Collection
- Exploration
- Cleaning
- Visualization
- Analysis
- Presentation

### **RESULTS**

The Top 10 of all languages and technol used and will be used in the future are displayed here.

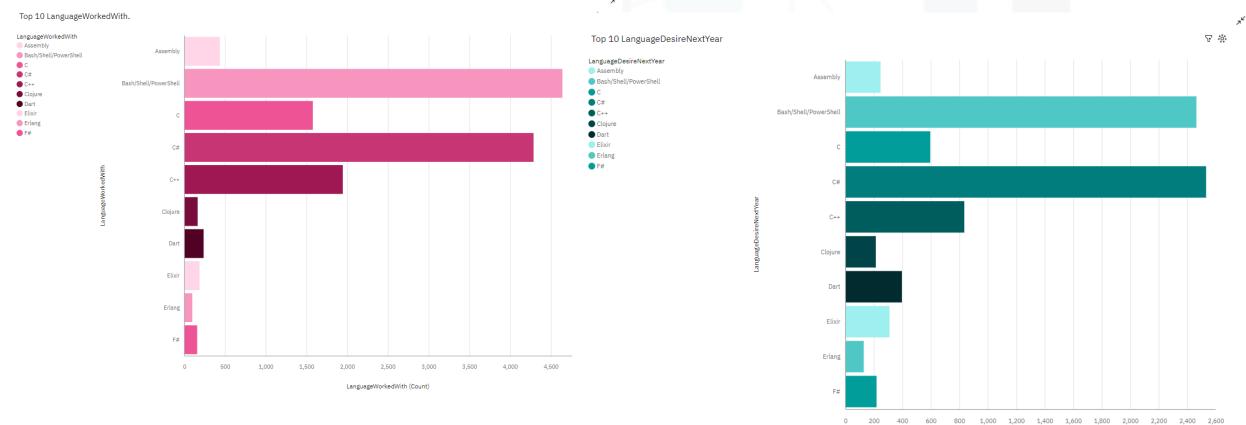
Trends Table of top 10

	Respondent ▲	LanguageWorkedWith	LanguageDesireNextYear	DatabaseWorkedWith	DatabaseDesireNextYear	PlatformWorkedWith	PlatformDesireNextYear
	1,696,649	(no value)	(no value)	(no value)	(no value)	(no value)	Microsoft Azure
	1,699,678	(no value)	JavaScript	(no value)	(no value)	(no value)	(no value)
nn	ologies 1,786,470	R	(no value)	(no value)	(no value)	(no value)	(no value)
are	1,805,303	(no value)	Scala	(no value)	(no value)	(no value)	(no value)
	1,828,065	Scala	(no value)	(no value)	(no value)	(no value)	(no value)
	1,935,054	PHP	PHP	(no value)	(no value)	(no value)	(no value)
	2,029,710	HTML/CSS	HTML/CSS	(no value)	(no value)	(no value)	(no value)
	2,162,836	(no value)	Ruby	(no value)	(no value)	(no value)	(no value)
	2,238,821	Java	(no value)	(no value)	(no value)	(no value)	(no value)
	2,247,257	(no value)	(no value)	(no value)	(no value)	(no value)	MacOS

### PROGRAMMING LANGUAGE TRENDS



#### **Next Year**



# PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

#### **Findings**

- Java Script, HTML, SQL and Bash/Shell/PowerShell are some of the top languages.
- Use of python and type script are increasing in the coming year.
- At the same time, PowerShell usage is decreasing in the next year.

#### **Implications**

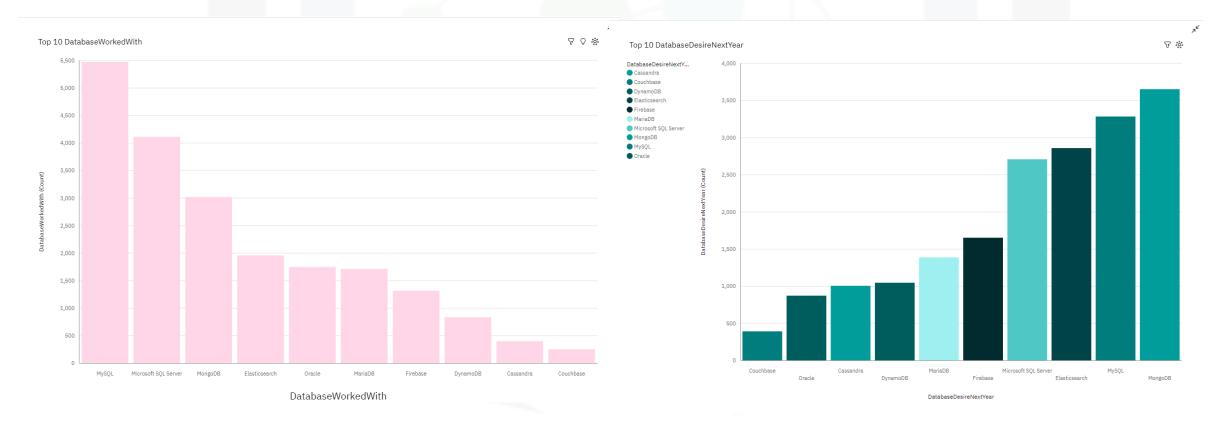
- Python will be used most in the coming future because of its capabilities.
- Platforms and Databases in the future are also changing gradually.
- High demands of web development



### DATABASE TRENDS

#### **Current Year**

#### **Next Year**







#### DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

#### **Findings**

- MySql stands in the top.
- Then Microsoft Sql server and MongoDB comes 2<sup>nd</sup> and 3<sup>rd</sup>.
- Elasticsearch is less used compared to all those above.

#### **Implications**

- Coming year will change the order to MongoDB, Sql and elasticsearch as top 3.
- Companies still prefer opensourced databases.
- Redis support abstract databases.

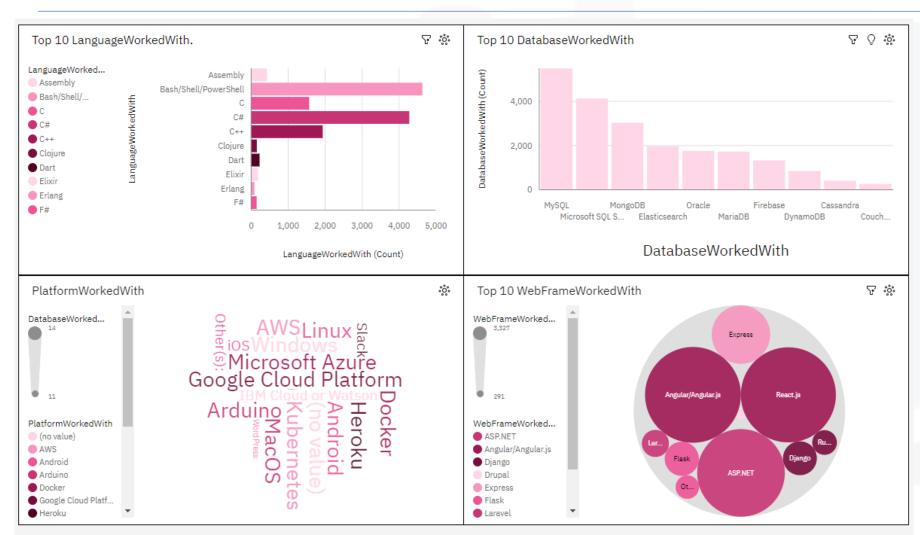


# **DASHBOARD**

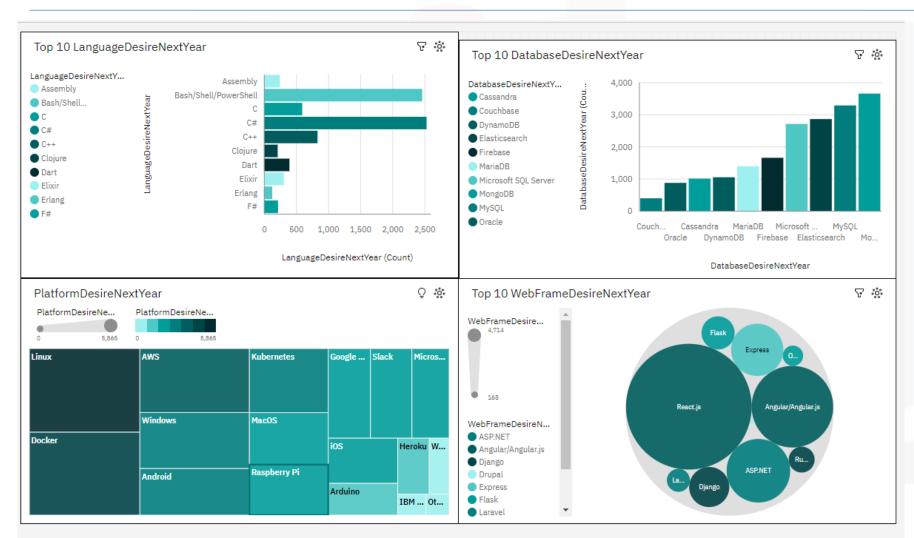


https://github.com/Rahulshaji7/Coursera/blob/main/project %20main.pdf

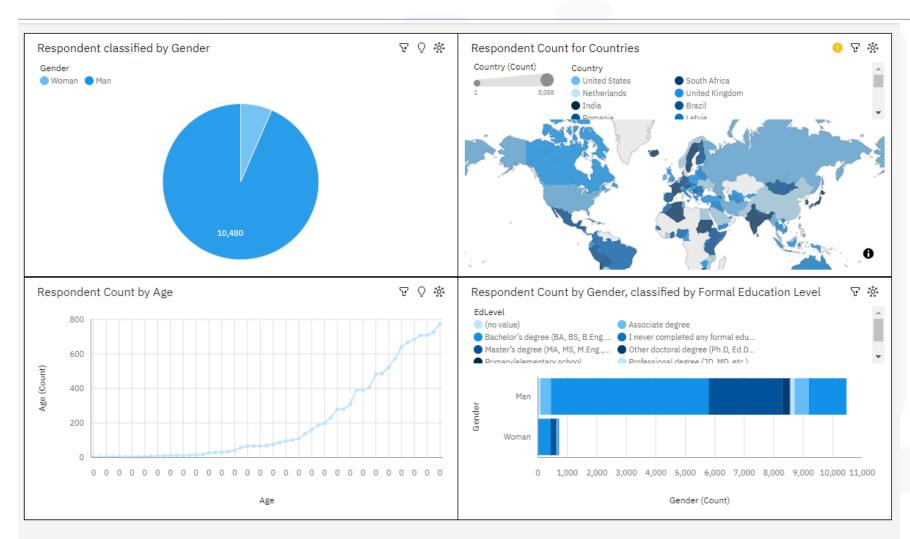
### DASHBOARD TAB 1



### DASHBOARD TAB 2



### DASHBOARD TAB 3



### **DISCUSSION**



- The current and future trends of Technologies and languages.
- Gender categorization shows the involvement of women in the trend.
- Age and formal Education trend dependency.
- Technology gaps in different countries.

### OVERALL FINDINGS & IMPLICATIONS

#### **Findings**

- The sudden changes in technology trend in this year and future.
- Gender gap in the trend.
- Technology usage is increasing in countries like India and USA.

#### **Implications**

- Companies and personals should adapt with the changes.
- Awareness and job hiring should be considered to reduce the gender gap.
- Better technologies should be used in other developing countries.

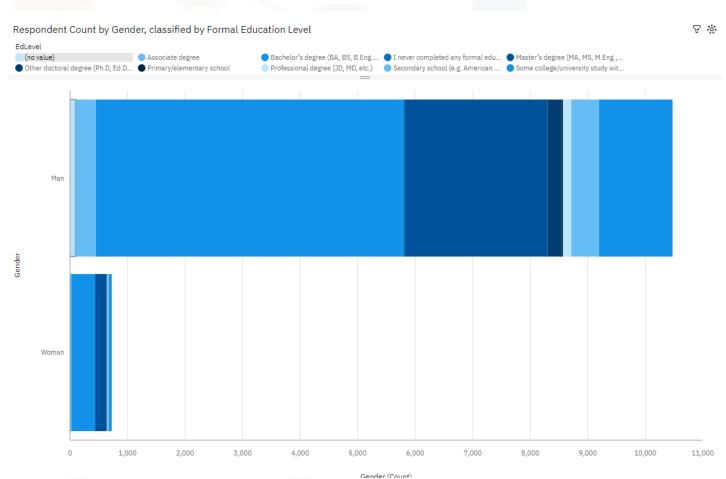
### CONCLUSION



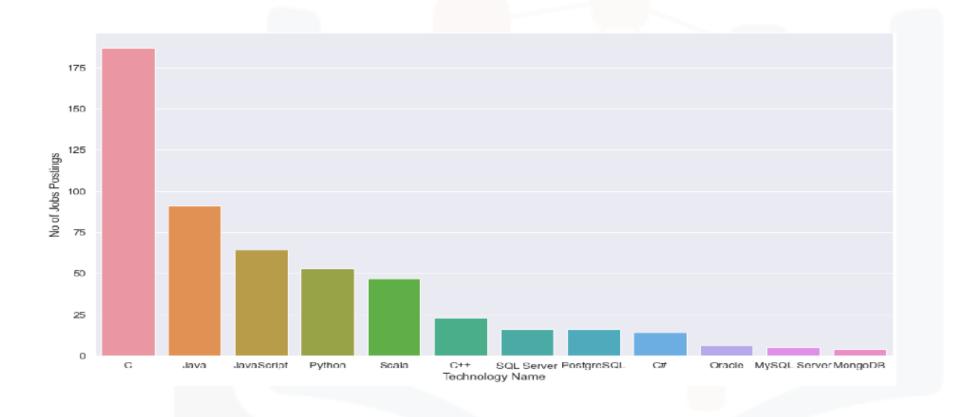
- Study the trend and adapt accordingly.
- Usages of Language, Platform and Databases.
- Demographic Survey.
- Gender roles in the trend.

### **APPENDIX**





# JOB POSTINGS



# POPULAR LANGUAGES

