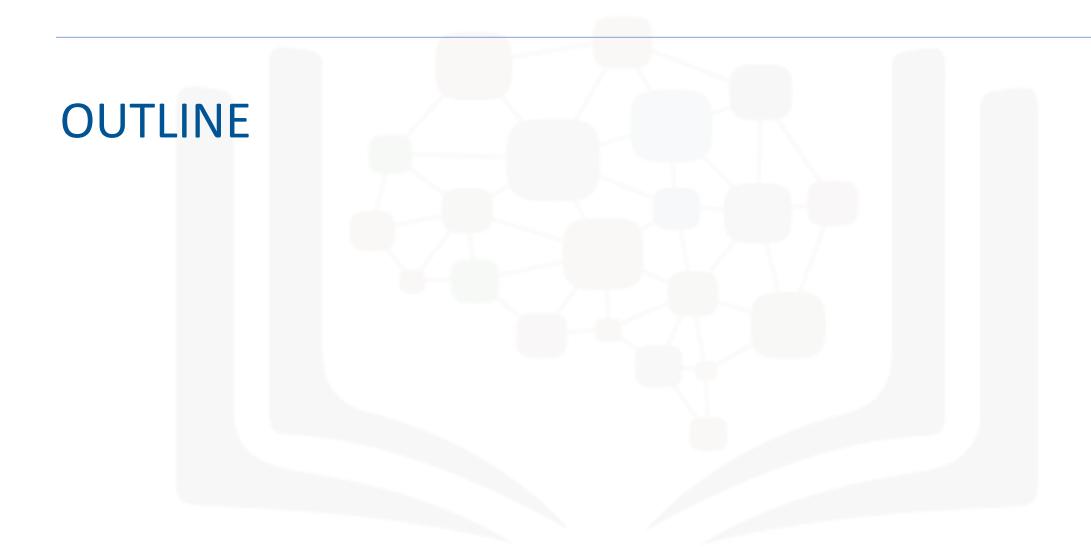


nalysis Presentation

Rifath Zahraa, 2024







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

Conclusion



EXECUTIVE SUMMARY



- Trends in programming languages and databases
- Demographics survey
- Technological gap in countries
- Gender gap in jobs

INTRODUCTION

About:



Analyzing the trends in software development

Purpose:

- Identify skill requirements for future
- What are the top programming languages in demand?
- What are the top database skills in demand?
- What are the popular IDEs

Audience: Human Resource and IT Head

METHODOLOGY



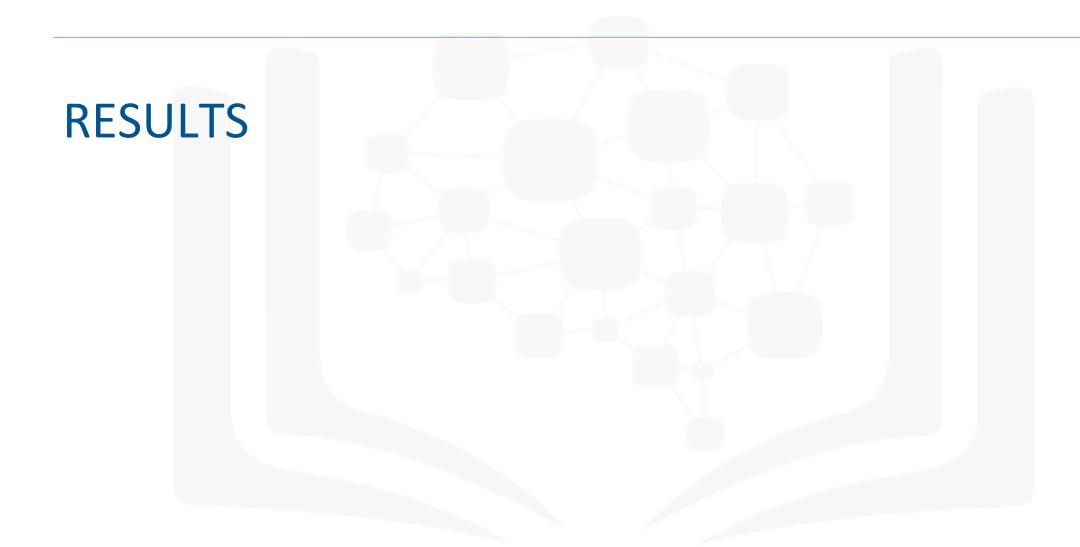
Data Collection Sources

- Stack Overflow Developer 2019 Survey
 GitHub Job **Postings**
 - Programming Languages Annual Salary
 - Data Exploration



- Data Visualization
 - Presentation





	Respondent	LanguageWorkedWith	LanguageDesireNextYear	DatabaseWorkedWith	DatabaseDesireNextYear
1.	25142	R			
2.	25142	Python			
3.	25142	С	С		
4.	25142	Go	Python		
5.	25142	C++	C++		
6.	25142	HTML/CSS	R		
7.	25142	PHP			
8.	25142	Bash/Shell/PowerShell	Bash/Shell/PowerShell	PostgreSQL	PostgreSQL
9.	25141	C#	F#		Microsoft SQL Server
10.	25141	JavaScript			
11.	25141	TypeScript			
12.	25141	HTML/CSS			Redis
13.	25141	Java			
14.	25141	Python			
15.	25141	5QL			

1-100/72277

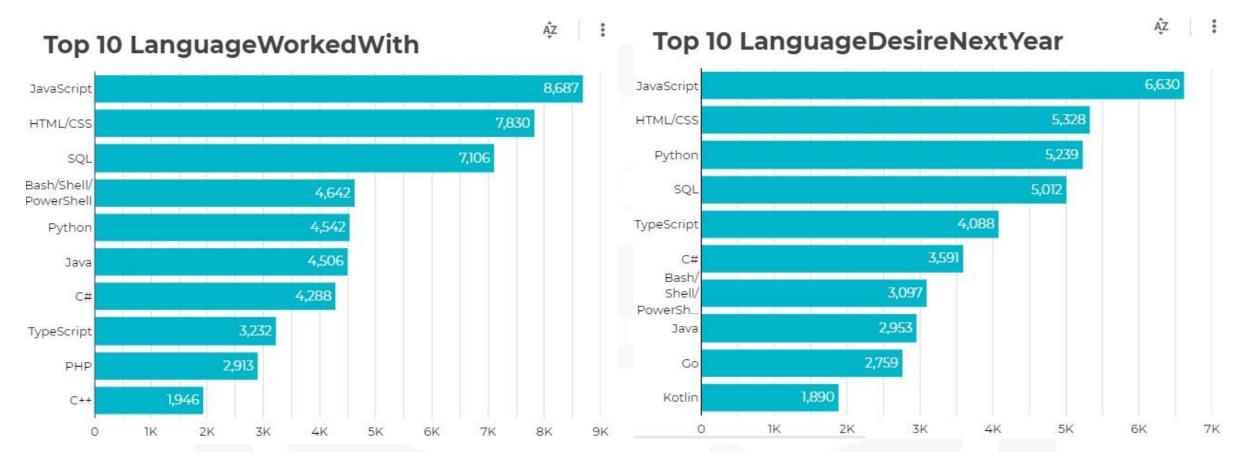






PROGRAMMING LANGUAGE TRENDS





PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

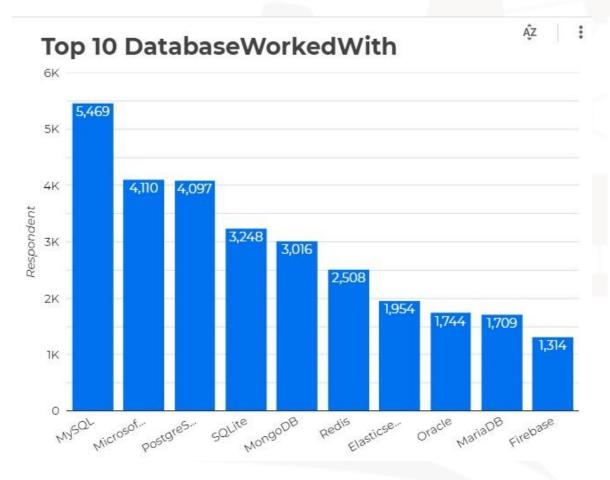
Findings

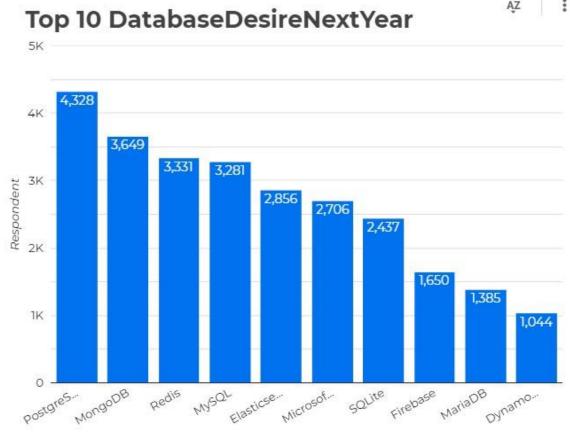
- JavaScript, HTML/CSS, SQL are top 3 this year
- Python and Typescript becoming popular next year
- PowerShell edged out in next year

Implications

- Web development are still in high demand
- Big Data technology in companies still requires SQL
- With Al and ML in rising demand, Python is best choice

DATABASE TRENDS





DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- MySQL most popular
- Behind is Microsoft SQL
- MongoDB and Redis are upcoming favorites
- New kid on the block: Elasticsearch Implications

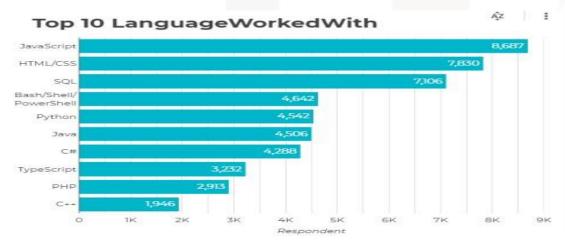
- Open source databases are still preferable in companies
- NoSQL databases will make an impact for storing non relational data
- Redis supports abstract data types
- Pre tuned search to website, app, or ecommerce store

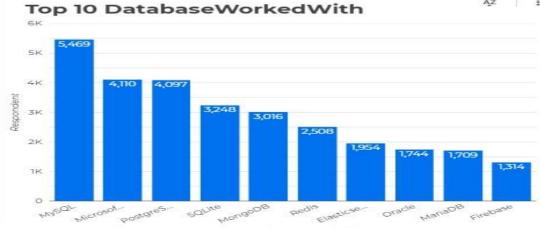
DASHBOARD



https://datastudio.google.com/reporting/a55d5713-edcb4e2a-8a62-c17553a7ea05

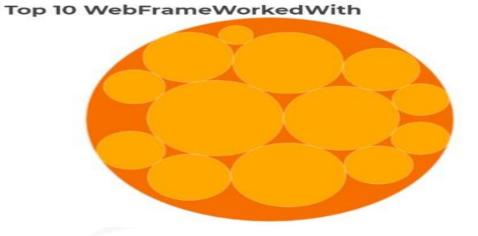
DASHBOARD TAB 1





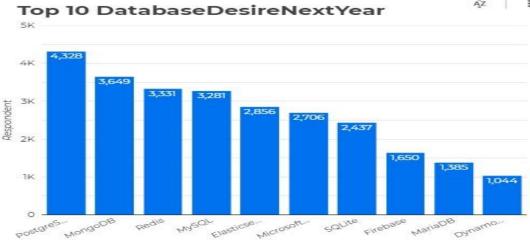
PlatformWorkedWith.



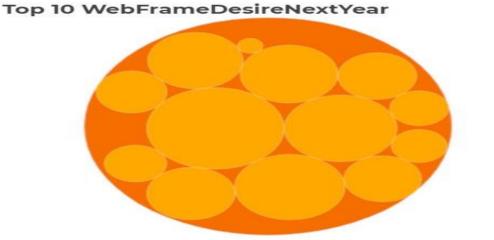


DASHBOARD TAB 2







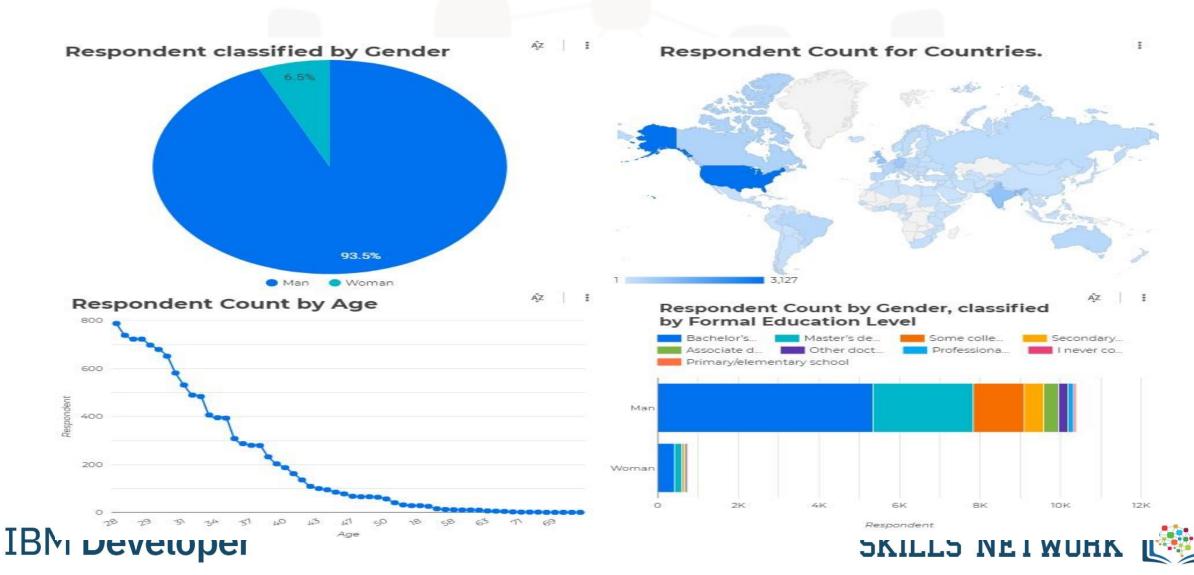


IBM Developer

SKILLS NETWORK



DASHBOARD TAB 3



DISCUSSION





- Technology Trends now and future
- Training and Reskilling workers
- Females participation in Technology field
- Bridge divide of technology gaps in developing countries
- Eliminate age and education discrimination in employment

OVERALL FINDINGS & IMPLICATIONS

Findings

- Fast changing technology every year
- Concentration on several countries like USA and India
- Gender gap in technology jobs

 Platforms like Docker and AWS are growing

Implications

- Companies need to be flexible and adjust to rapid changes
- Need to spread technology out to lagging countries

Impact of job hiring's

 Shift to faster app deployments and cloud services in future

CONCLUSION

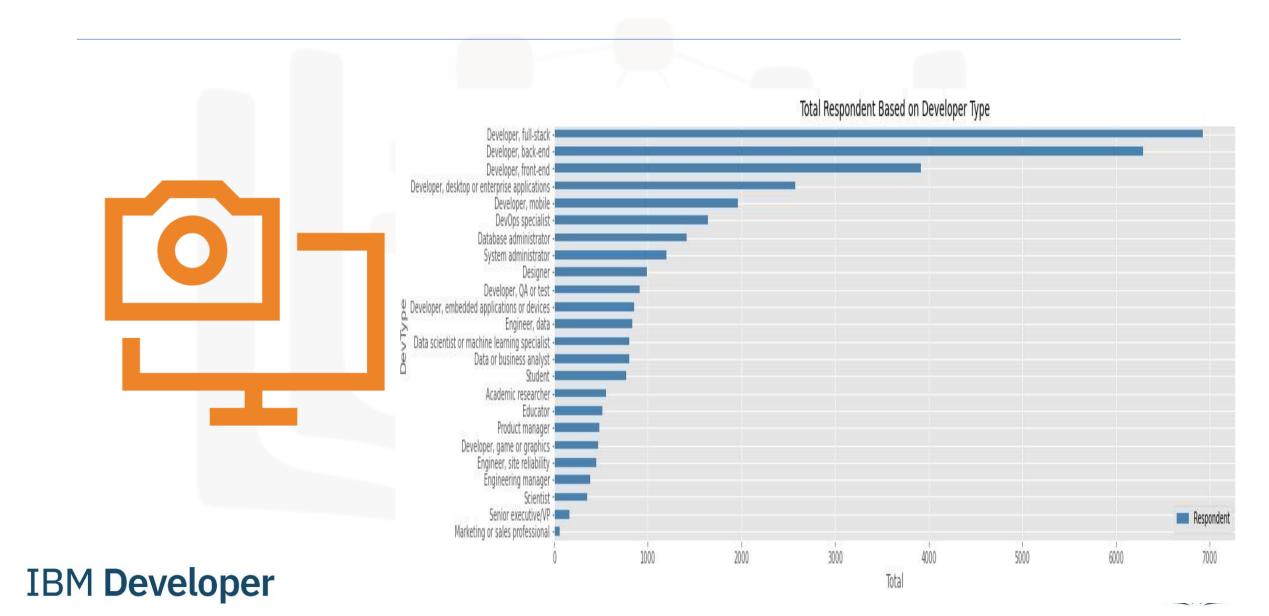
Technology Trends for current and next year

Programming Languages, Database and Platform overview



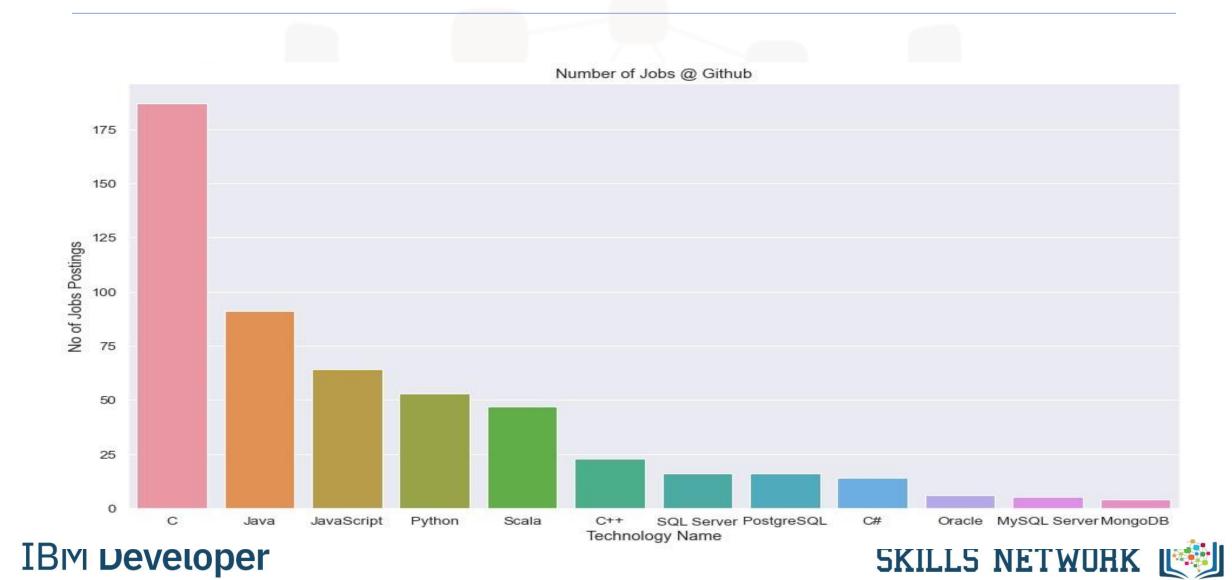
- Demographics overview
- Actions to be taken
- In future, incorporate Machine Learning to predict trends and salaries





GITHUB JOB POSTINGS





POPULAR LANGUAGES



