

Technologies and Trends

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OUTLINE



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

EXECUTIVE SUMMARY



- Data gathering and Removing unnecessary information.
- Methodologies:
 - Gathering
 - Analysis
 - Visualization and presenting data
- Deployed findings with appropriate charts.
- Discussion about findings and final conclusion.

INTRODUCTION



- In this Analysis looked out for Technologies and Trends of present and future.
- Identified Skill requirements, developers interest for future and also popular technologies.
- Who may be the audience?
 - Students
 - IT leaders
 - Organizations/ Developers

METHODOLOGY



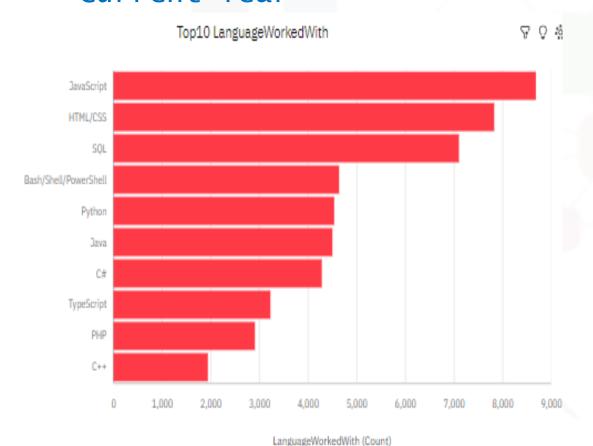
- Gather & evaluate survey data evaluate
- collecting data using:
- 1. Web scraping-Developers survey 2019
- 2. APIs- Job postings data
- Data exploring
- Data Wrangling
- Data visualization
- Dashboards

RESULTS

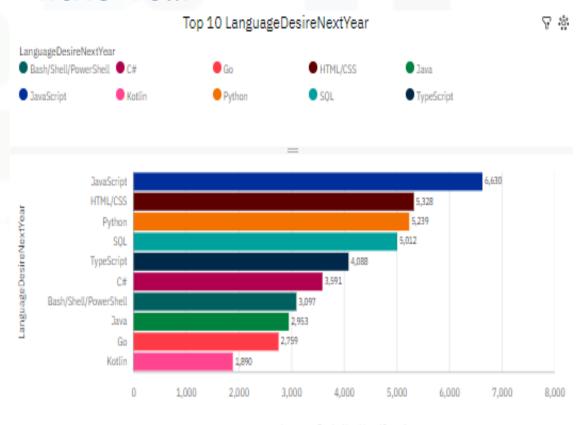
UndergradMajor	EdLevel	Student	Country	Employment	OpenSource	OpenSourcer	Hobbyist	MainBranch	Respondent	
computer	Bachelor's degree (BA, BS, B.Eng., etc.)	No	United States	Employed full-time	The quality of OSS and closed source software	Never	No	l am a developer by profession	4	0
science, computer engineering or	Some college/university study without earning	No	New Zealand	Employed full-time	The quality of OSS and closed source software	Once a month or more often	Yes	I am a developer by profession	9	1
computer	Master's degree (MA, MS, M.Eng., MBA, etc.)	No	United States	Employed full-time	OSS is, on average, of HIGHER quality than pro	Less than once a month but more than once per	Yes	I am a developer by profession	13	2
, NaN	Master's degree (MA, MS, M.Eng., MBA, etc.)	No	United Kingdom	Employed full-time	The quality of OSS and closed source software	Never	Yes	I am a developer by profession	16	3
computer	Bachelor's degree (BA, BS, AB-Eng, etc.)	No	Australia	Employed full-time	The quality of OSS and closed source software	Less than once a month but more than once per	Yes	I am a developer by profession	17	4

PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



LanguageDesireNextYear (Count)

IBM Developer

SKILLS NETWORK



PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- JavaScript is the leading language present year.
- Followed by HTML & SQL
- Where Python and Java using competitively

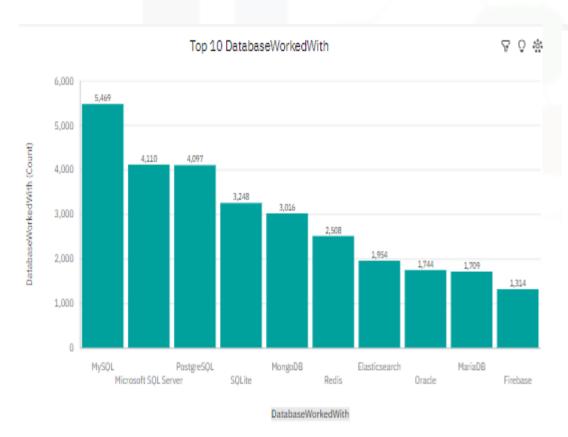
Implications

- Python is desirable language for future
- Where JavaScript & Html gain same interest in developers
- Developers count increased

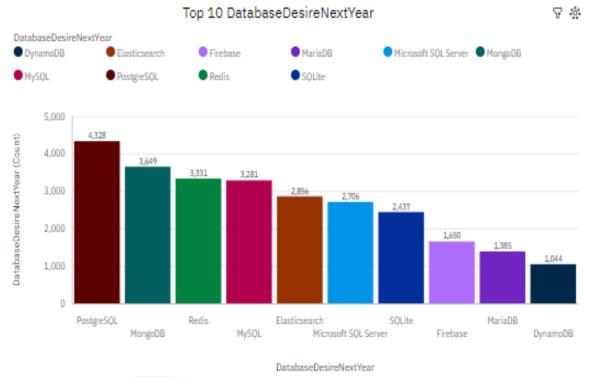


DATABASE TRENDS

Current Year



Next Year





DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- MySQL is most used DB
 & Firebase is least using.
- MS SQL server & PostgreSQL are equal competitors now

Implications

- PostgreSQL is desirable for future
- MySQL and Redis equal competitors in future
- MongoDB replaced the 2nd place of Microsoft SQL server for future.

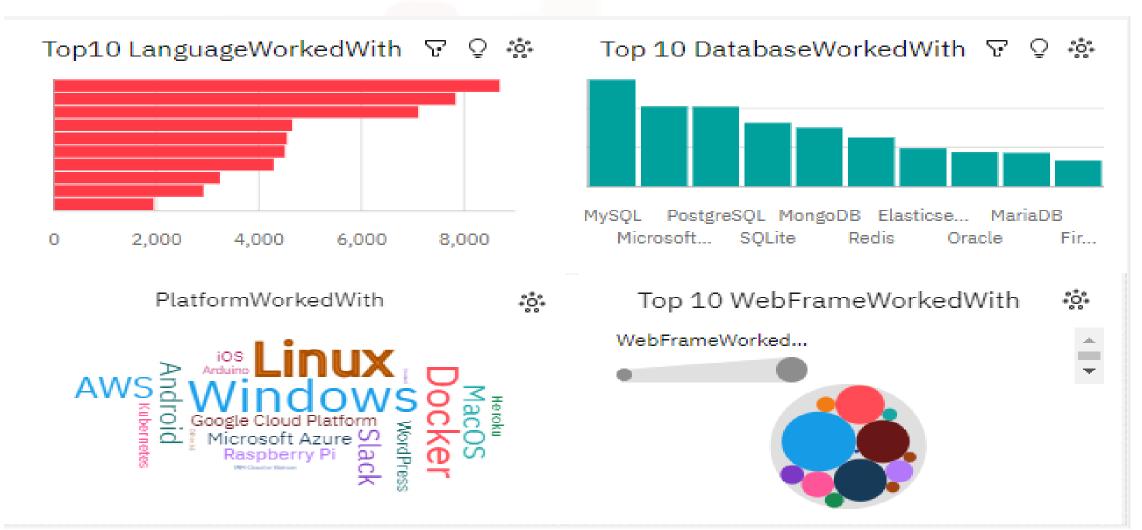


DASHBOARD

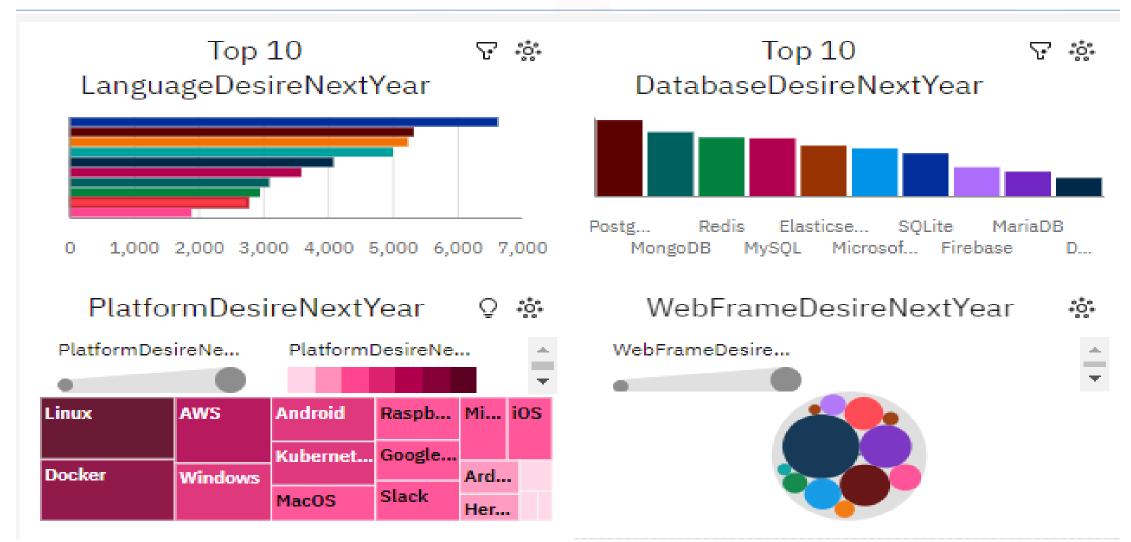


https://github.com/Hemalatha1176/IBM-Data-Analyst-Capstone-Project/blob/main/Dashboard%20with%20IBM %20Cognos%20Analytics-Assignment.pdf

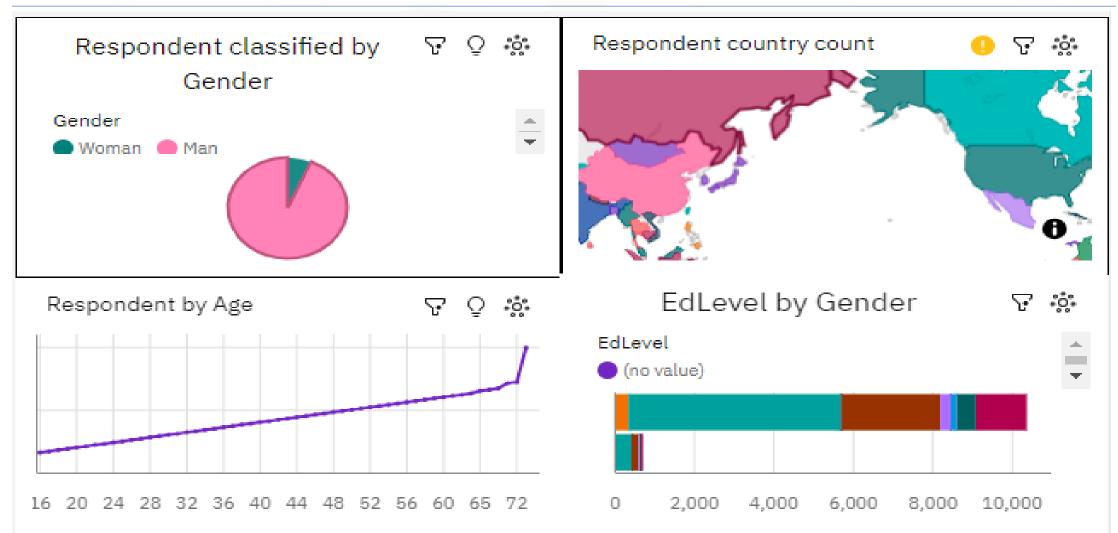
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



DISCUSSION



- Trends and Future of technologies.
- EdLevel, age, gender in equalities in IT industries.

OVERALL FINDINGS & IMPLICATIONS

Findings

- More changes in technology preferences from present to future
- Also majority of the Respondents are Males, extreme gender & age discrimination.
- Among all the countries US is the top technology country

Implications

- Developers should up to date with Trends & Technologies
- Gender is not/ one of the concern of employment benefits
- All countries should expose with new Tech trends.

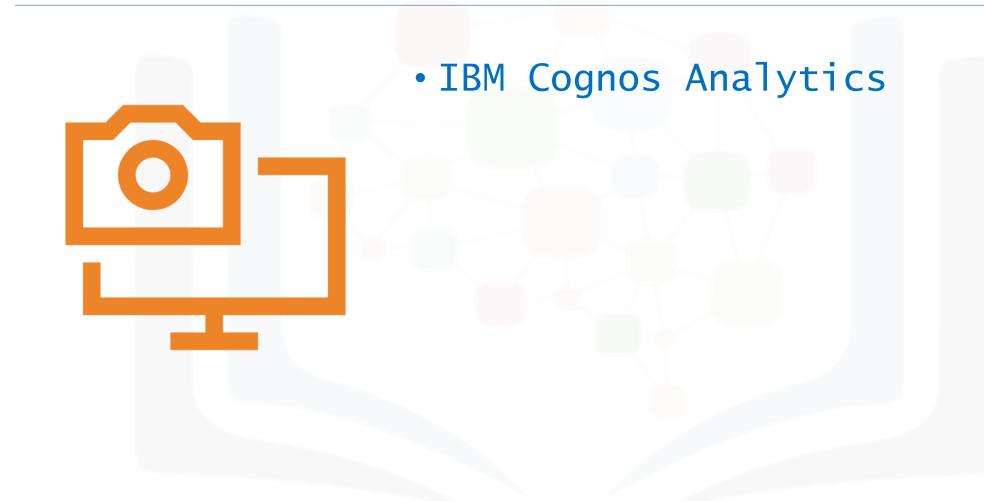


CONCLUSION

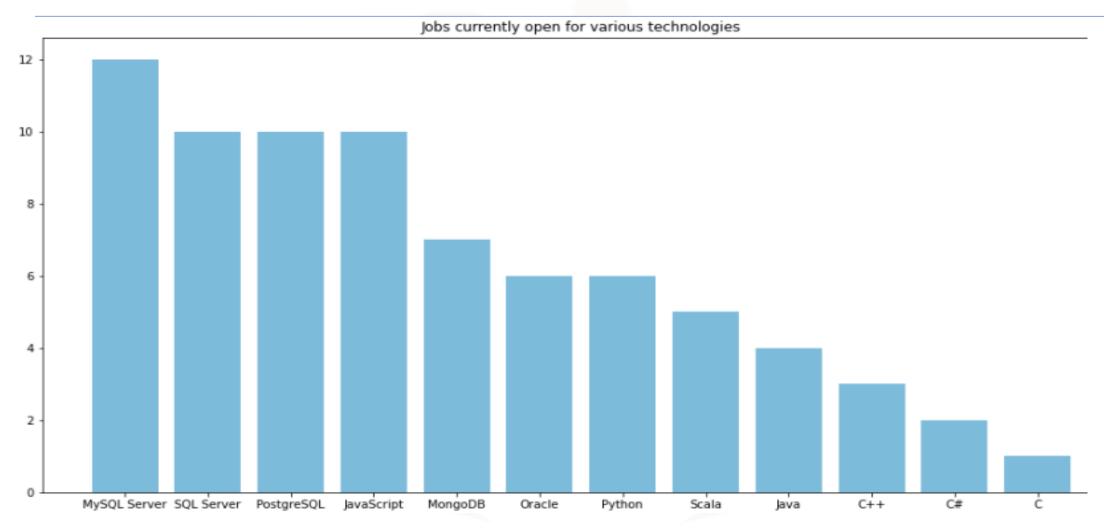


- More changes in technology preferences from present to future
- Gender and Education
- Technology trends and Compensations
- Programming languages and WebFrames

APPENDIX



JOB POSTINGS



POPULAR LANGUAGES

