



Data Analysis on Stack Over Flow Survey Data

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OUTLINE



- Executive Summary
- Introduction
- Methodology
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 - Dashboards
- Discussion
 - Findings & Implications
- Conclusion

EXECUTIVE SUMMARY

Current Technology Usage

- *Top 10 programming Languages*
- *Top 10 Databases Platforms*
- *Top 10 Web Frames*

Future Technology Trend

- *Top 10 Languages Desired for the next year*
- *Top 10 Databases Desired for the next year*
- *Desired Platforms for the next year*
- *Top 10 Web Frames Desired for the next year*

Demographics

- *Respondents Classified by Gender*
- *Respondents Count By Country*
- *Respondents Count by Age*
- *Respondents Count by Gender and Classified by education level*



INTRODUCTION

We Want To Study About Technology Trends such as:

- Top Programming Languages are in Demand Currently and in Future
- Top Databases are in Demand Currently and in Future
- Top Web Frames are in Demand Currently and in Future
- Popular Platforms



METHODOLOGY

Collecting Data using Web Scrapping

- *Using Web Scrapping we can get data from table using different tags*
 - Table using <tr>
 - Image using

Analyzing Data sets based upon Number of Users:

1. For Programming Languages Trends Now and In Near Future
2. For Database Trends Now and in near Future

This allows us to query for jobs based upon:

- Technology like Python, MySQL
- In City like New York, Bangalore



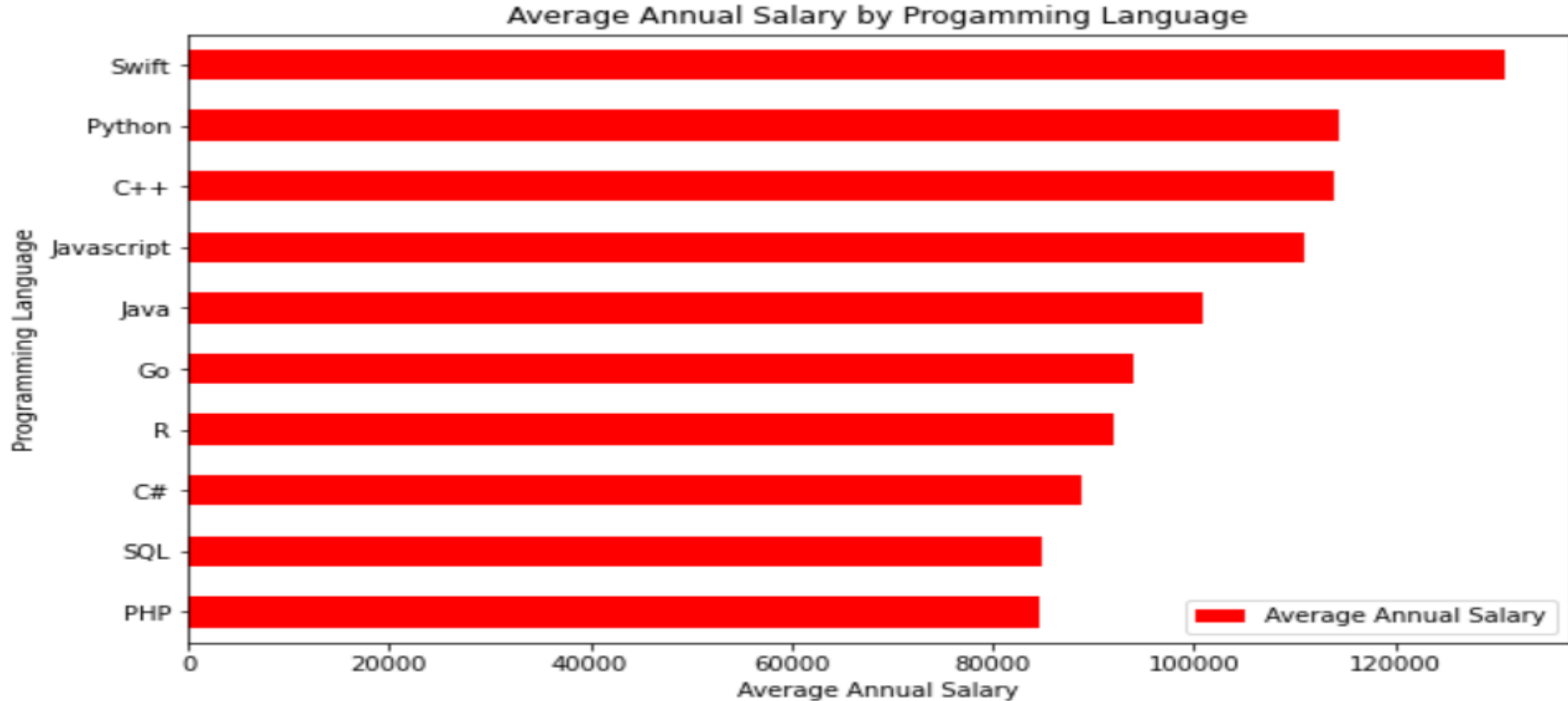
METHODOLOGY(Cont.)

Data Visualization:

- Using Tableau Made Visuals For Technology Trends such as Famous Programming Languages, Databases, Web Frames and Platforms
- Demographics Dashboard including no. of Males, Females, People from different cities



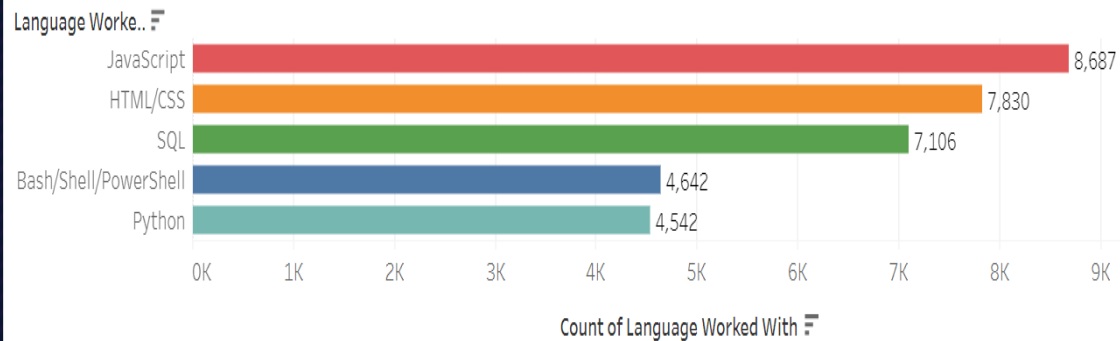
POPULAR LANGUAGES



PROGRAMMING LANGUAGE TRENDS

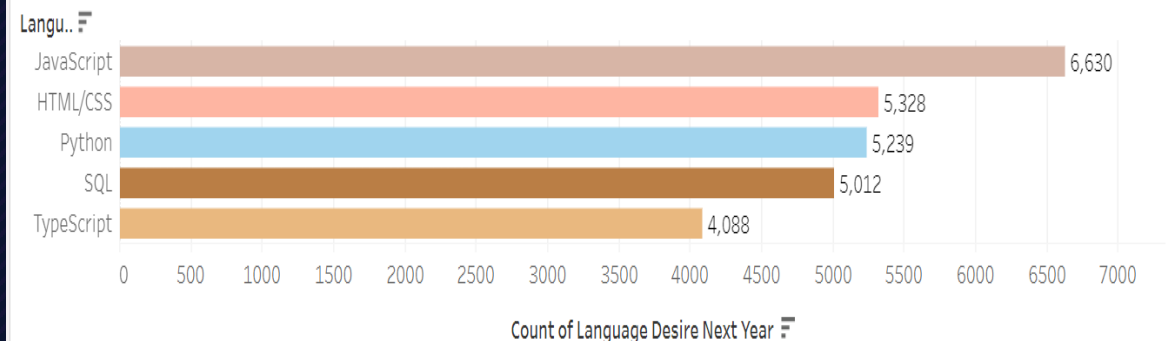
Current Year

Top 5 Languages Work With



Next Year

Top 5 Languages Desired Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Java Script is most Popular Programming Language currently and in Future as well
- HTML/CSS is the second popular programming language to use in current and also in future
- Python has the rising trend 3rd right now and 5th next year

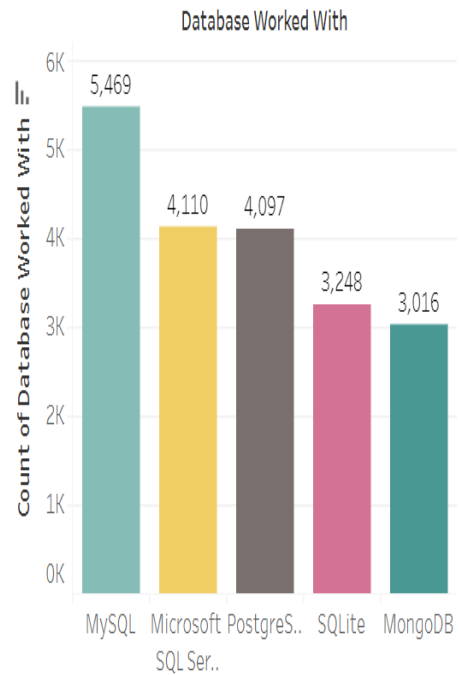
Implications

- Java, C#, C++ have lost their momentum. People are looking for other languages apart from them
- Python is new thread for near future and need to be focus on that.
- Java Script and HTML/CSS both have demand in current and future

DATABASE TRENDS

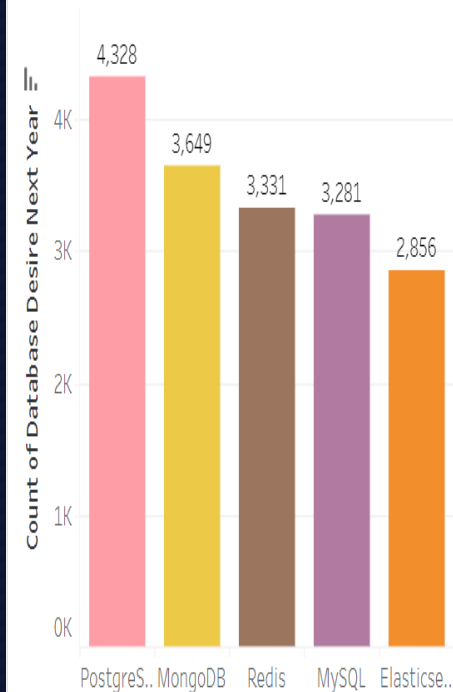
Current Year

Top 5 Database Work With



Next Year

Top 5 Database Desire Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- RDBMS has the dominant trend in current usage
- Non RDBMS have the dominant trend in future usage
- MySQL is Most Famous and used Database system in current

Implications

- People are highly interested in learning non relational database system.
- It is clear that big Data will become very popular in future

DASHBOARD

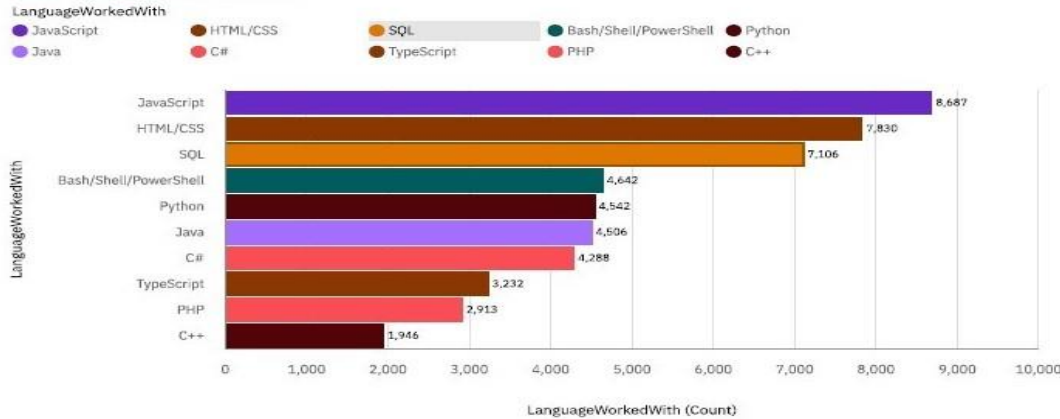


https://public.tableau.com/app/profile/preetam.joshi/viz/TechnologyTrend_16634086798060/Sheet1

DASHBOARD TAB 1

Current Technology Usage

Top 10 Language Worked With

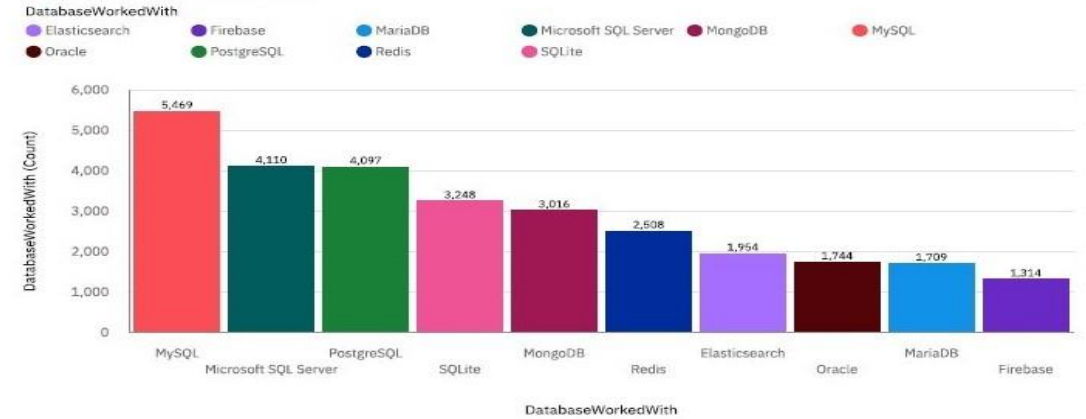


Platform Worked With



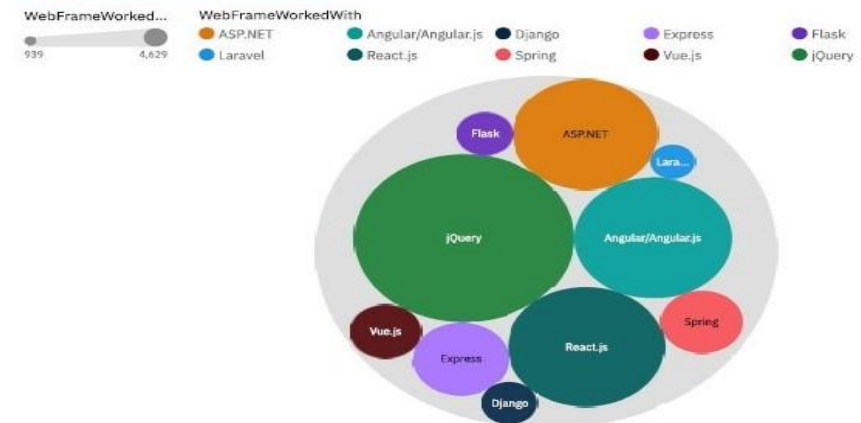
3

Top 10 Database Worked With



1

Top 10 WebFrame Worked With

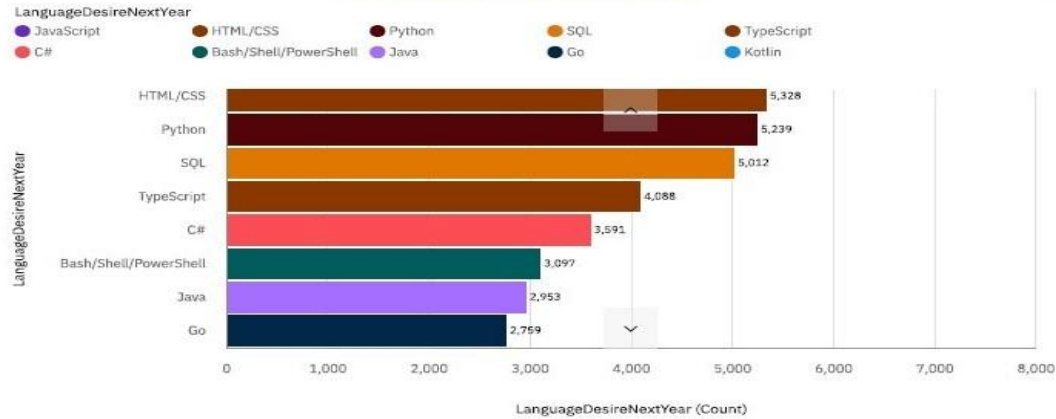


2

DASHBOARD TAB 2

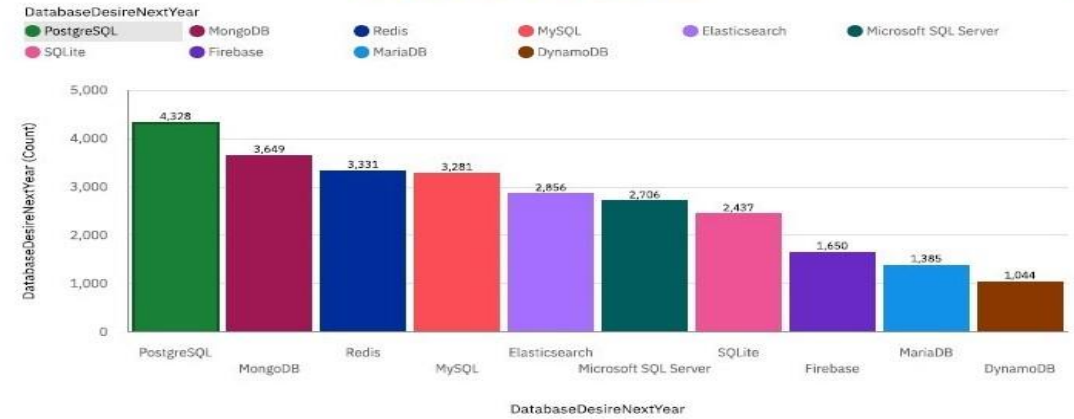
Future Technology Trend

Top 10 Languages Desire Next Year



1

Top 10 Database Desire Next Year

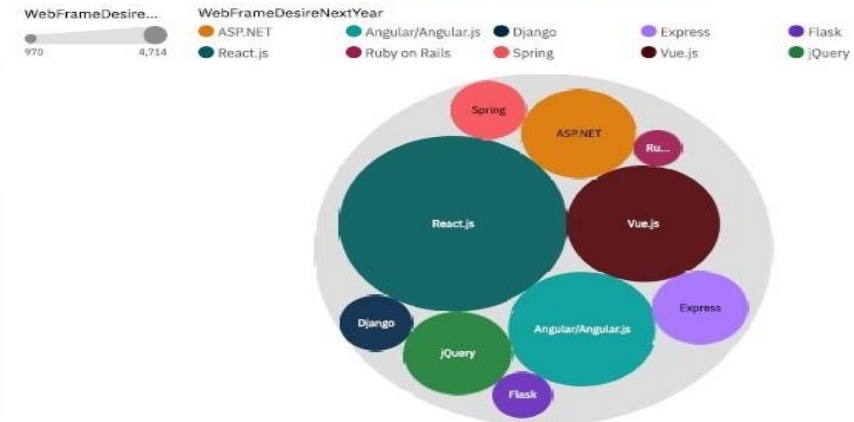


2

Platform Desire Next Year



Top 10 Web Frame Desire Next Year

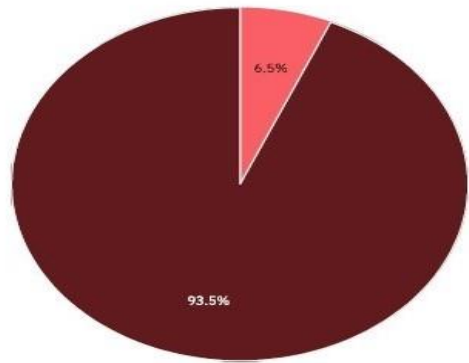


3

DASHBOARD TAB 3

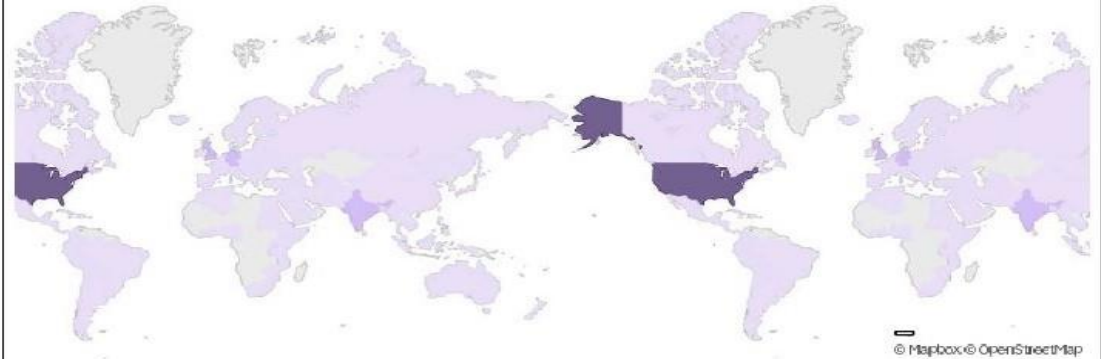
Demographics

Gender
● Woman ● Man

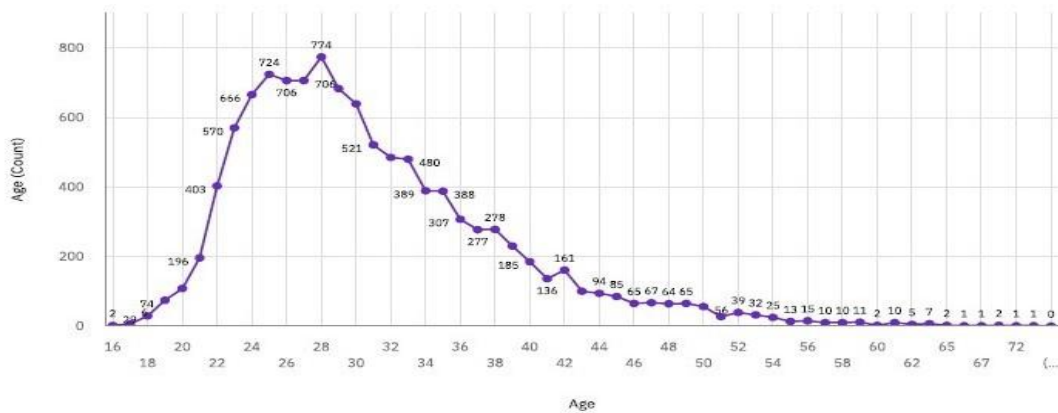


Respondent Classified by Gender 1

Country (Count)
1 3,058

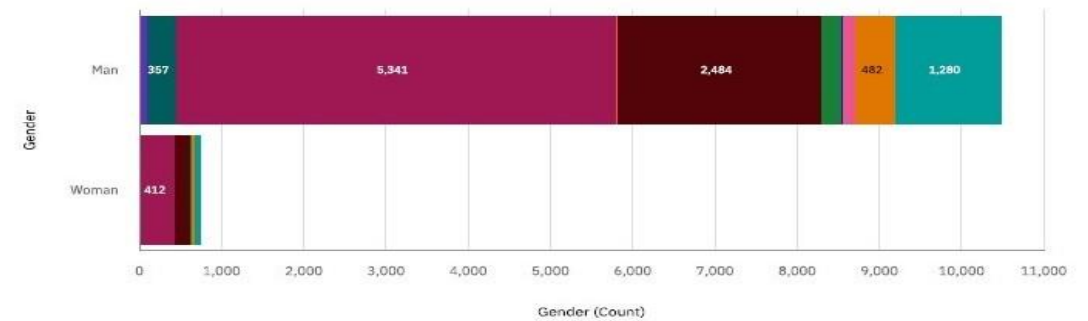


Respondent Count for Countries 2



Respondent Count by Age 3

EdLevel
● (no value) ● Associate degree ● Bachelor's degree (BA, BS, B.Eng., etc.) ● I never completed any formal edu...
● Master's degree (MA, MS, M.Eng., etc.) ● Other doctoral degree (Ph.D., Ed.D., etc.) ● Primary/elementary school ● Professional degree (JD, MD, etc.)
● Secondary school (e.g. American high school) ● Some college/university study without degree



Respondent Count by Gender, classified by Formal Education Level 4

Result

- Java Script is most popular programming language right now and in near future, HTML/CSS is secondly most used language
- MySQL is most popular Database now and PostgreSQL is Future Database
- More Males(93.5%) are their in the Tech Industry Compares to females(6.5%)
- Highest Paying Programming Languages
 - Swift
 - Python

DISCUSSION

It is very clear from all the previous findings that, The upcoming future is for big Data so the knowledge of Big Data along with advanced programming language will make the difference.

Conclusion

- The top programming languages are in demand
- The top databases skills are in demand
- The popular platforms
- The top web frames are in demand





THANK YOU