



# DEVELOPERS SURVEY

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# OUTLINE

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

# EXECUTIVE SUMMARY

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- The main purpose is to examine the trends of the developers in the current days.
- Data collection tools
  - API'S
  - Web scraping
- Data analysis or EDA is performed to search for outliers, finding the correlations or analyzing how the data is distributed
- Various plots such as bar chart, pie chart etc are used to highlight the relationships between data.
- Dashboards are made to find the depict the relationships between the current

# INTRODUCTION

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- The stack overflow survey is the annual survey that collects response from thousands of developers worldwide.
- This survey includes various aspects such as salary ,education , career preferences etc. of various developers across the globe.
- It helps the industry to identify the latest technologies that are required or ongoing in the current market .
- It includes responses from developers across different experience levels.

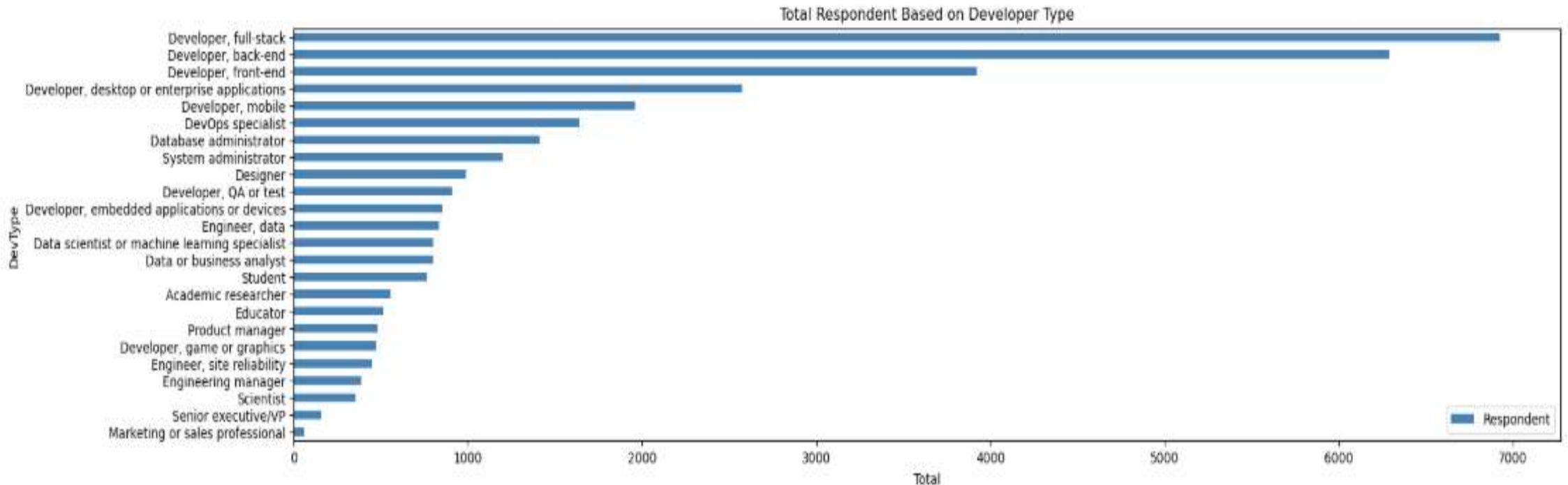
# METHODOLOGY

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- COLLECTING SURVEY DATA
  1. Api
  2. Web Scraping
  3. Exploring Data
- DATA WRANGLING
- EXPLORATORY DATA ANALYSIS
  1. Analyzing data distribution
  2. Handling outliers
  3. Correlations
- VISUALIZING THE DATA
  - Using various graphs to check the relationships and highlight the distribution of the data.
- DASHBOARDS

# RESULTS

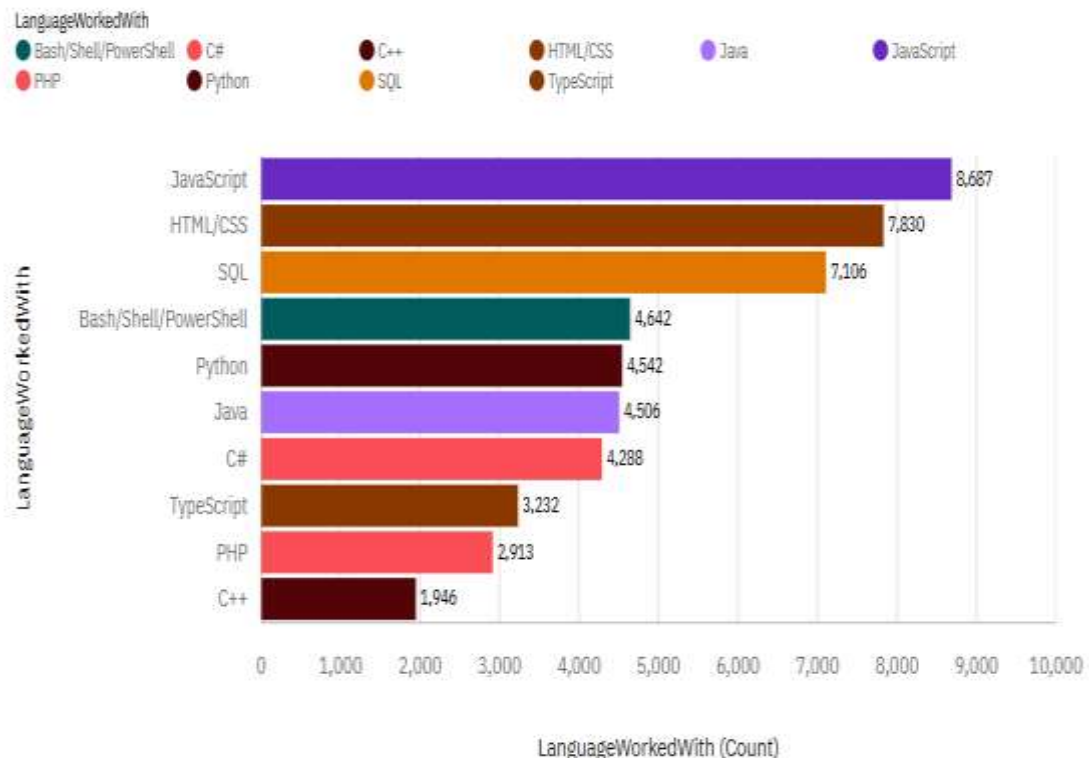


The most number of developers are interested in the full stack development followed by backend and frontend and the least chosen responses are from the market department.

# PROGRAMMING LANGUAGE TRENDS

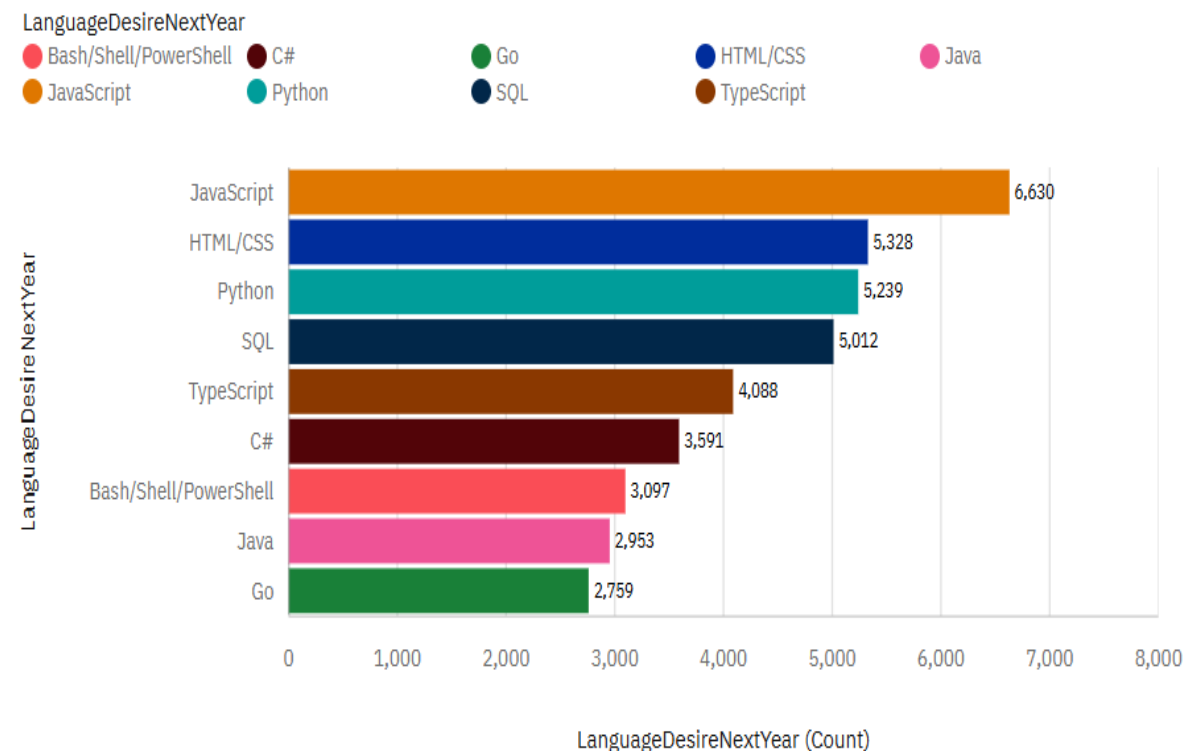
## Current

Top 10 LanguageWorkedWith



## Next

Top 10 LanguageDesireNextYear





# PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- JavaScript is the most popular language currently.
- Less people are interested in C++.
- Python is fastest-growing.

## Implications

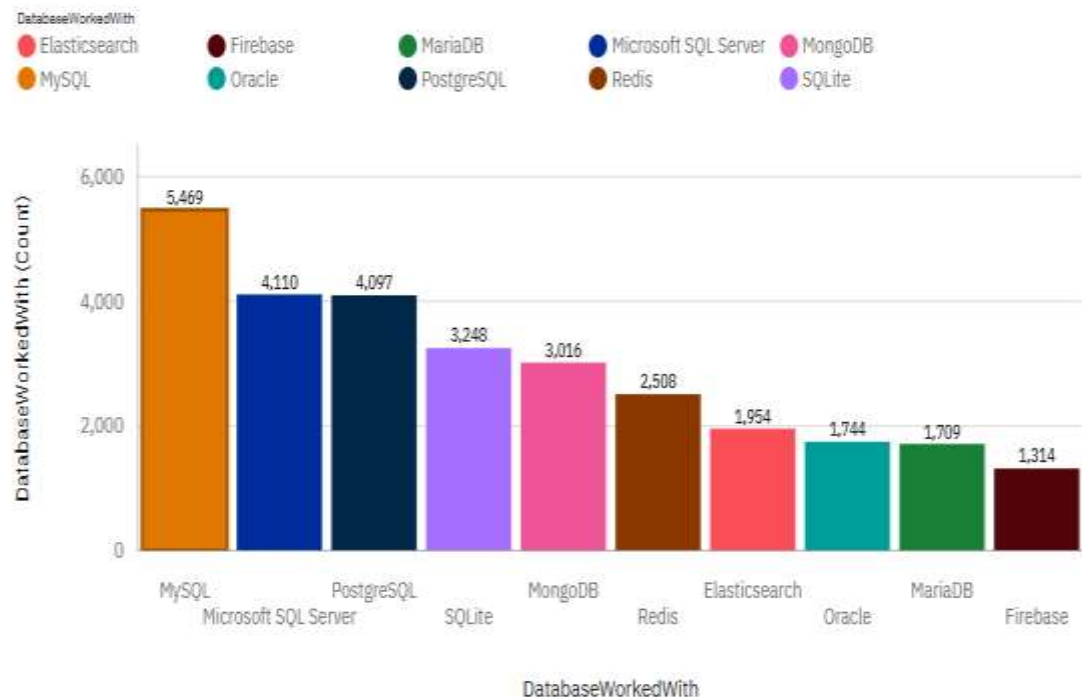
- Developers might shift from JavaScript to typescript.
- Python may overtake the market in the near future.
- Go may be emerged as the new language people wants to learn.



# DATABASE TRENDS

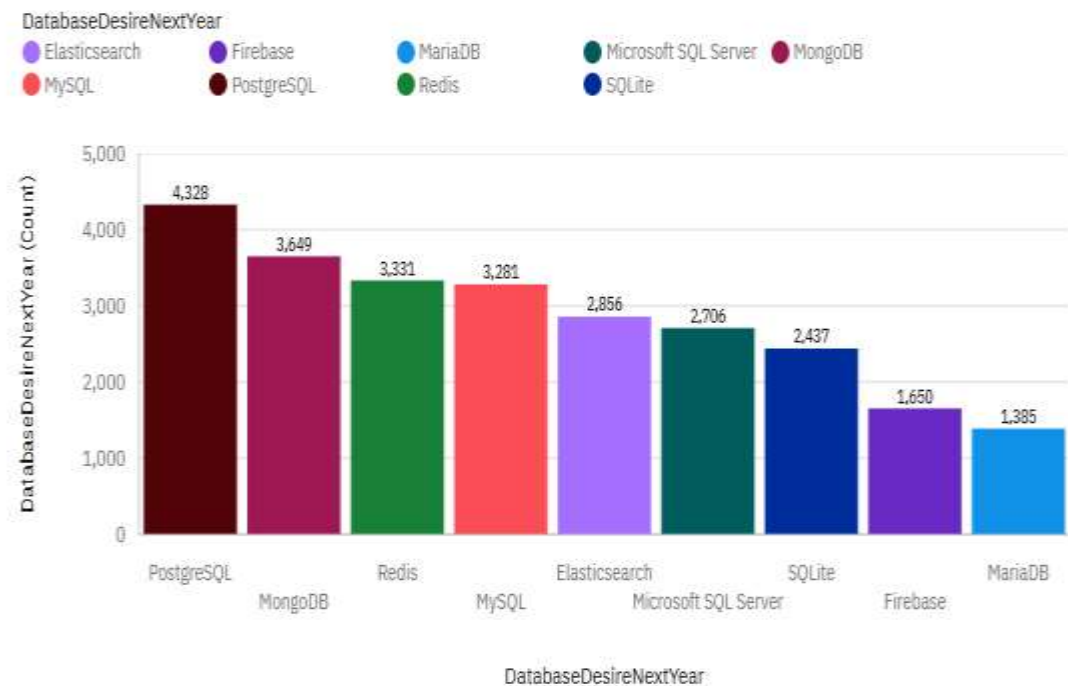
## Current Year

Top 10 DatabaseWorkedWith



## Next Year

Top 10 DatabaseDesireNextYear



# DATABASE TRENDS – FINDINGS & IMPLICATIONS

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## Findings

- MySQL is the most popular database.
- Increasing interest in PostgreSQL and MongoDB.
- Lack of interest in Microsoft SQL Server.

## Implications

- Microsoft SQL Server losing ground in the market.
- PostgreSQL and MongoDB establishment in the market.

# DASHBOARD

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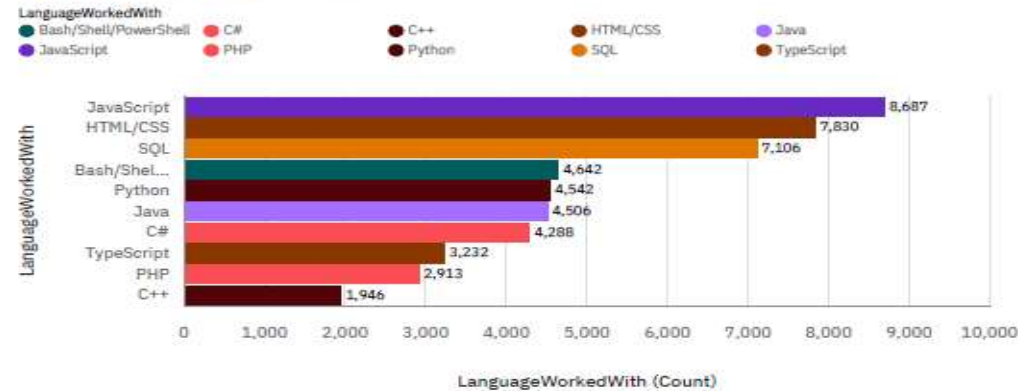


<https://github.com/Vinit-bansal/DASHBOARD>

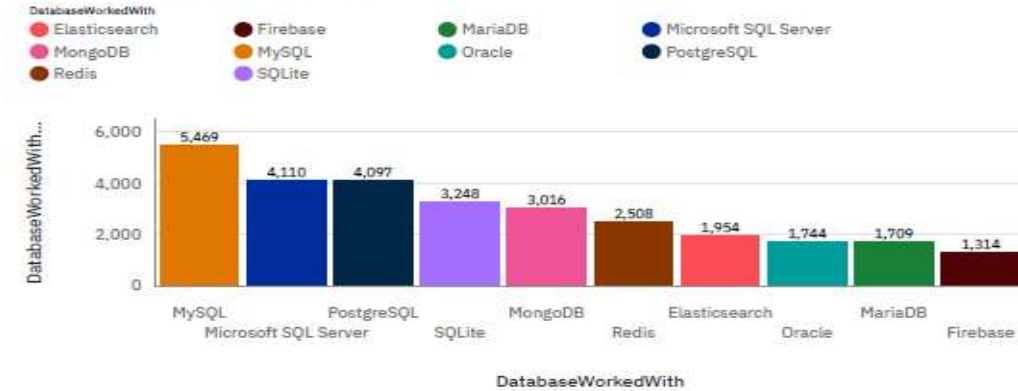
# DASHBOARD TAB 1

Tab 1

Top 10 LanguageWorkedWith



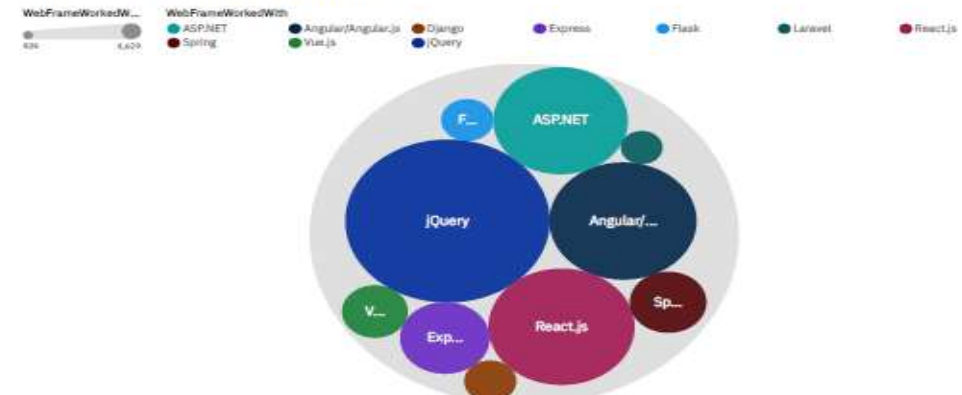
Top 10 DatabaseWorkedWith



PlatformWorkedWith



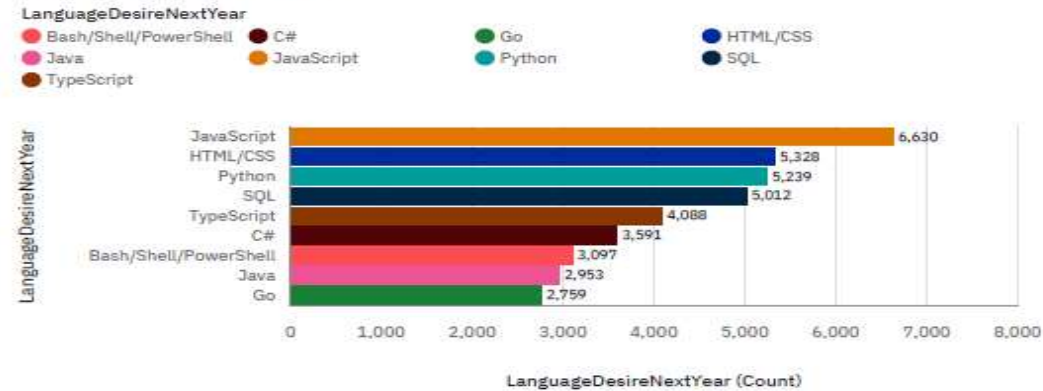
Top 10 WebFrameWorkedWith



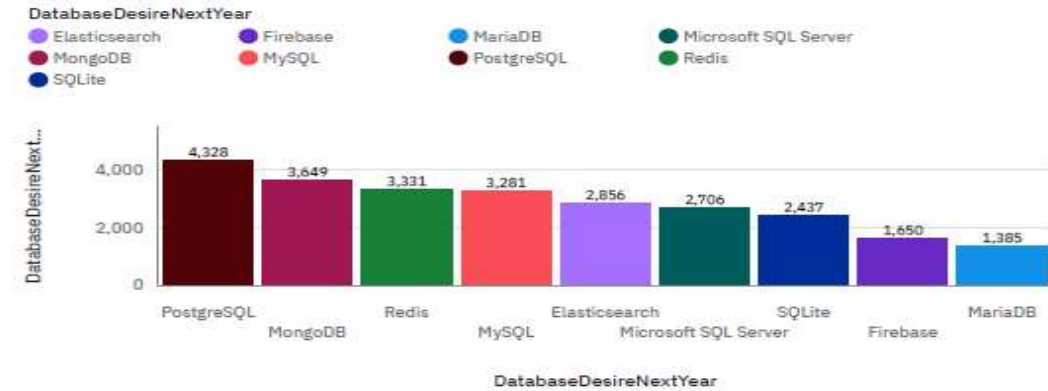
# DASHBOARD TAB 2

Tab 1

Top 10 LanguageDesireNextYear



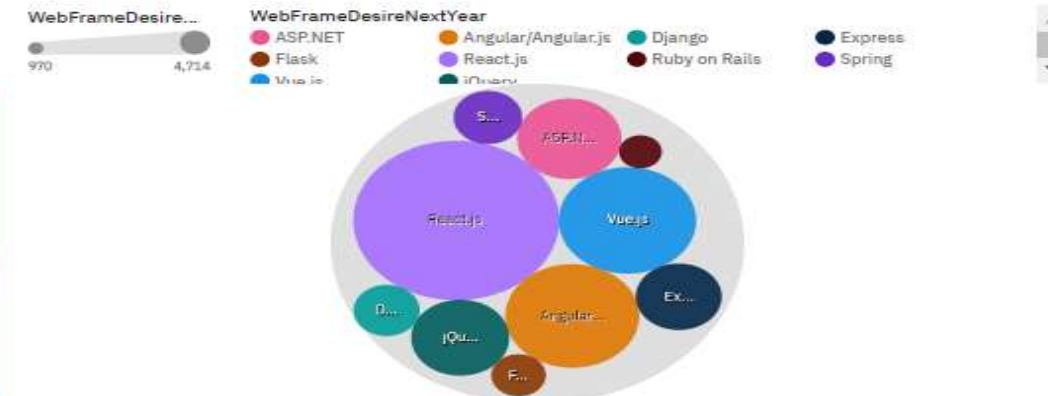
Top 10 DatabaseDesireNextYear



PlatformDesireNextYear



Top 10 WebFrameDesireNextYear

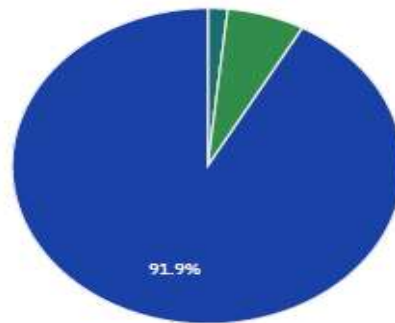


# DASHBOARD TAB 3

Tab 1

Respondent classified by Gender

Gender (Group)  
● Group ● Woman ● Man

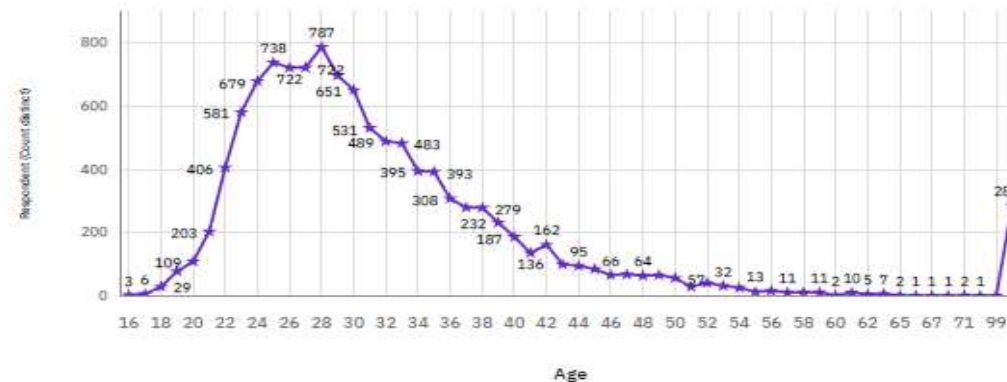


Respondent by Country regions

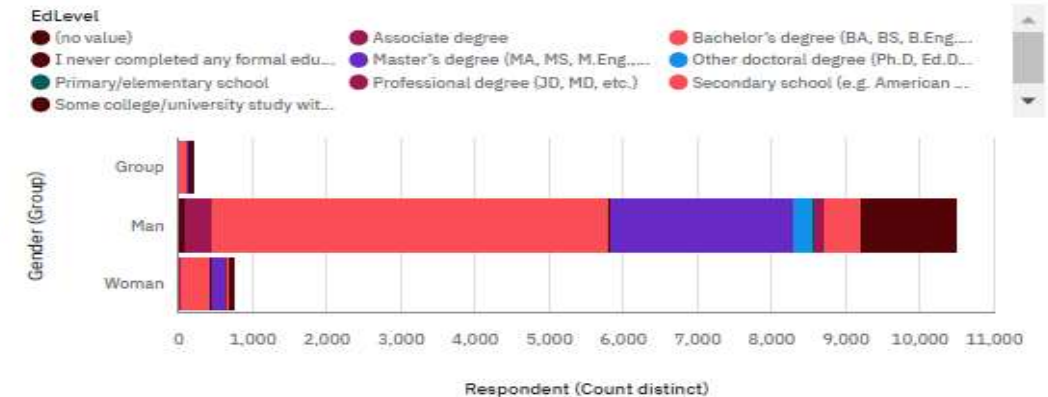
Respondent (Count)  
1 3,127



Respondent by Age



Respondent by Gender (Group) colored by EdLevel





# DISCUSSION

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- Just a question from my side:-

What role do emerging technologies play in shaping the future of development?



# OVERALL FINDINGS & IMPLICATIONS

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## Findings

- JavaScript is the most widely used language.
- Typescript and Python are getting popular.
- MySQL is popular in the current year but PostgreSQL might be the trending in the next few years.

## Implications

- Linux might be the most used platform in the upcoming time.
- React.js is also gaining huge followers and might lead the market.
- In the upcoming time full-stack development skills are much required.

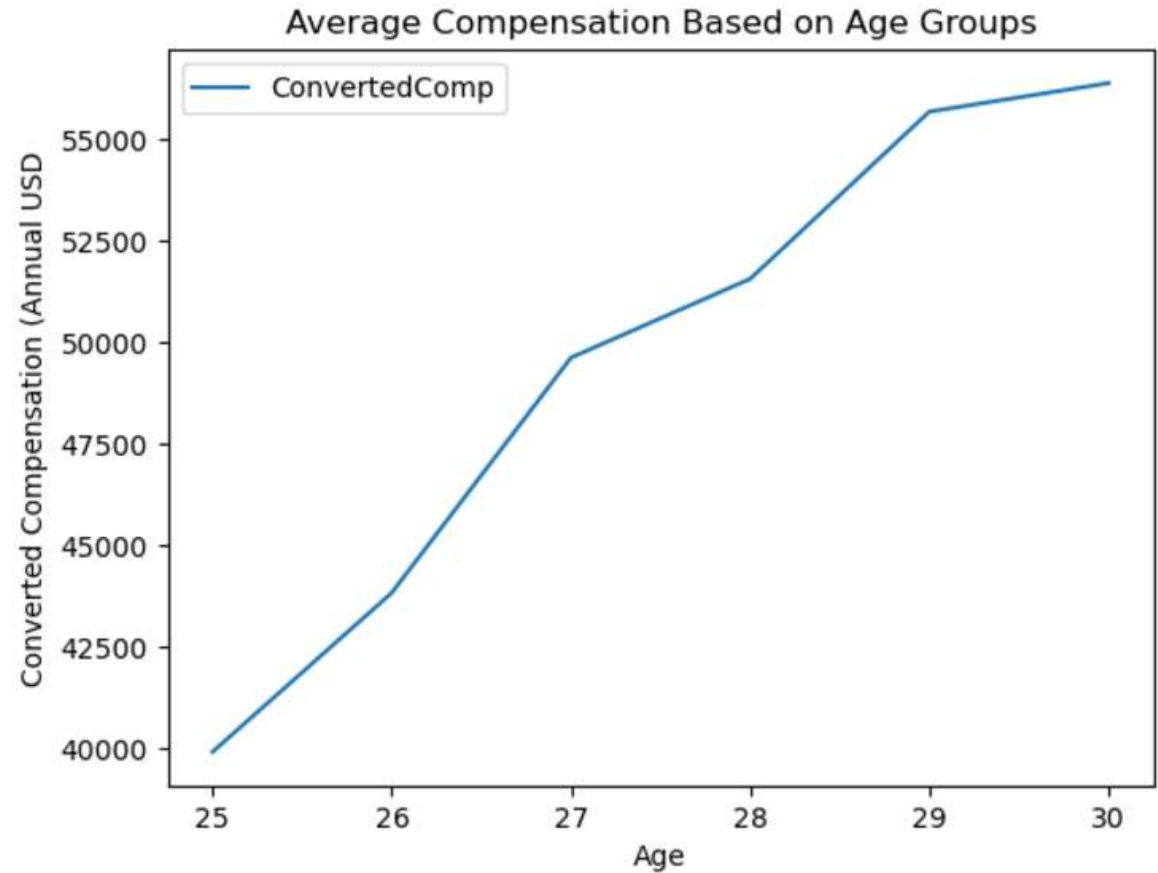
# CONCLUSION

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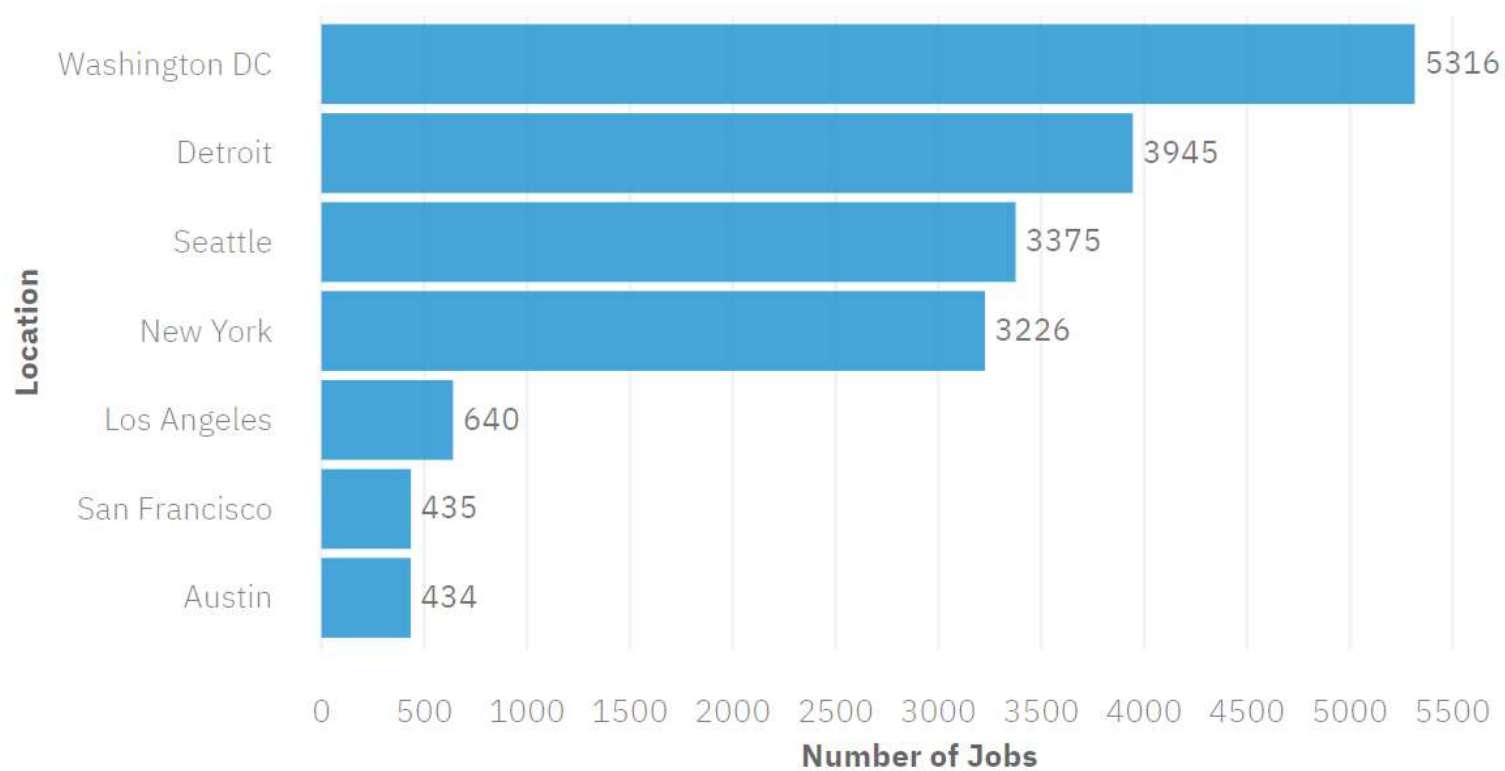


- All the developers are mostly from the developed countries.
- React.js, PostgreSQL , Linux, Typescript are the most trending in the near future.
- This survey can help companies to hire people based on the preferences or trends in the current market

# APPENDIX



# JOB POSTINGS



# POPULAR LANGUAGES

Average Annual Salary by Language

