



# DEVELOPER SURVEY

(STACK OVERFLOW)

DHATSHETH ROSHAN.A

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 [www.linkedin.com/in/dhatsheth-roshan](https://www.linkedin.com/in/dhatsheth-roshan)

# OUTLINE

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

# EXECUTIVE SUMMARY

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- Data contextualization and visualization goal.
- Methodologies
  - Data collection.
  - Data analysis.
  - Data visualization.
- Results & presentation (supported with graphs and visuals).
- Discussion of overall findings and implication regarding the results gathered
- Final conclusion, carried out of research

# INTRODUCTION

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- The Stack Overflow Developer Survey is an extensive annual survey that gathers insights from developers worldwide, making it one of the largest and most influential surveys in the tech industry.
- It captures perspectives from a diverse, global developer community, covering topics like programming languages, technology trends, and workplace dynamics.
- The survey provides valuable, data-driven insights that influence decisions in the tech industry and help shape future trends.
- Trend to predict what developers are doing.
  - Nearly 90,000 developers were part of this program.

# METHODOLOGY

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- Collection of data & Exploration
  - Collecting data using API's.
  - Collecting data using Webscraping.
  - Exploring data
- Data Wrangling
- Exploratory Data Analysis
  - Finding & handling Outliers.
  - Analyzing Distribution & correlation.
- Data Visualization
  - Highlighting Distribution of data, Relation between them, composition & comparison.
- Dashboards

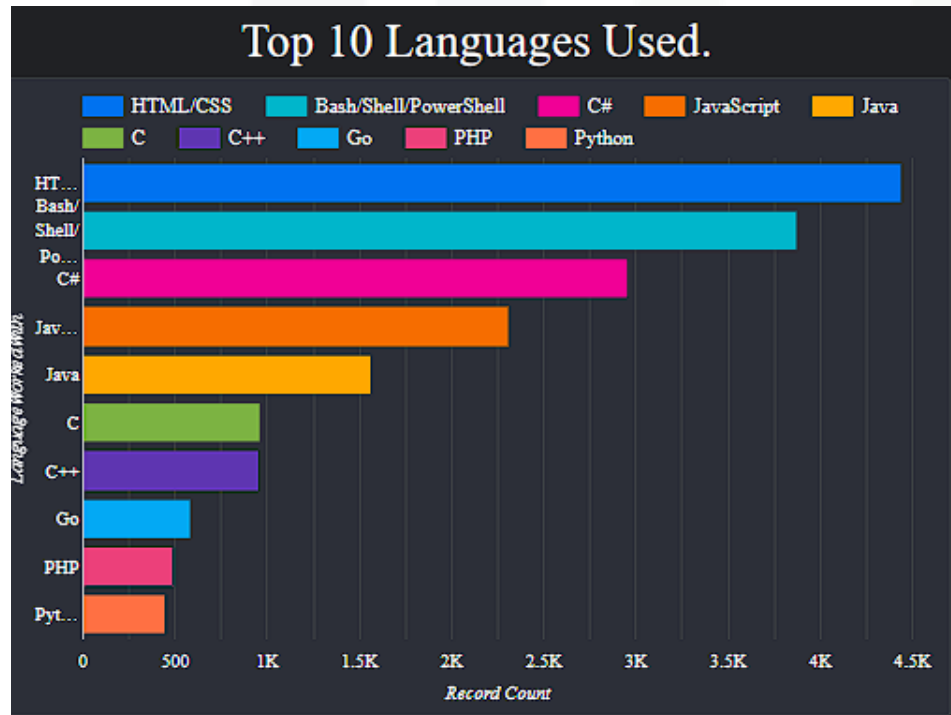
# RESULTS

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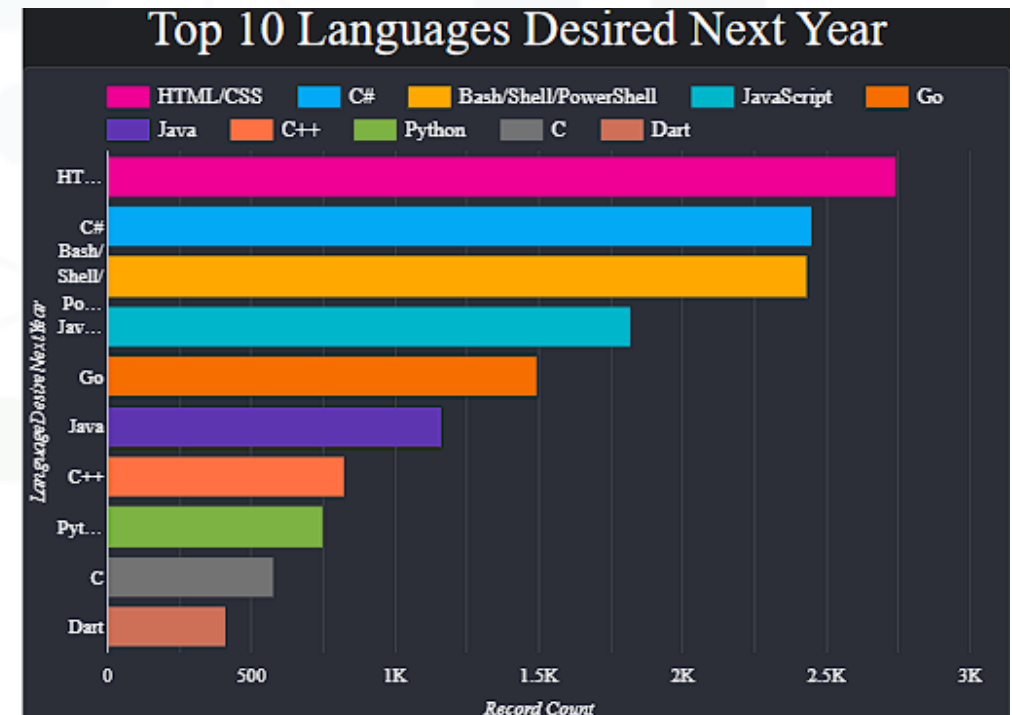


# PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



# PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- HTML sounds best with the developers.
- Python and C# is growing high comparatively.
- GO become the trending and interested language among most of them.

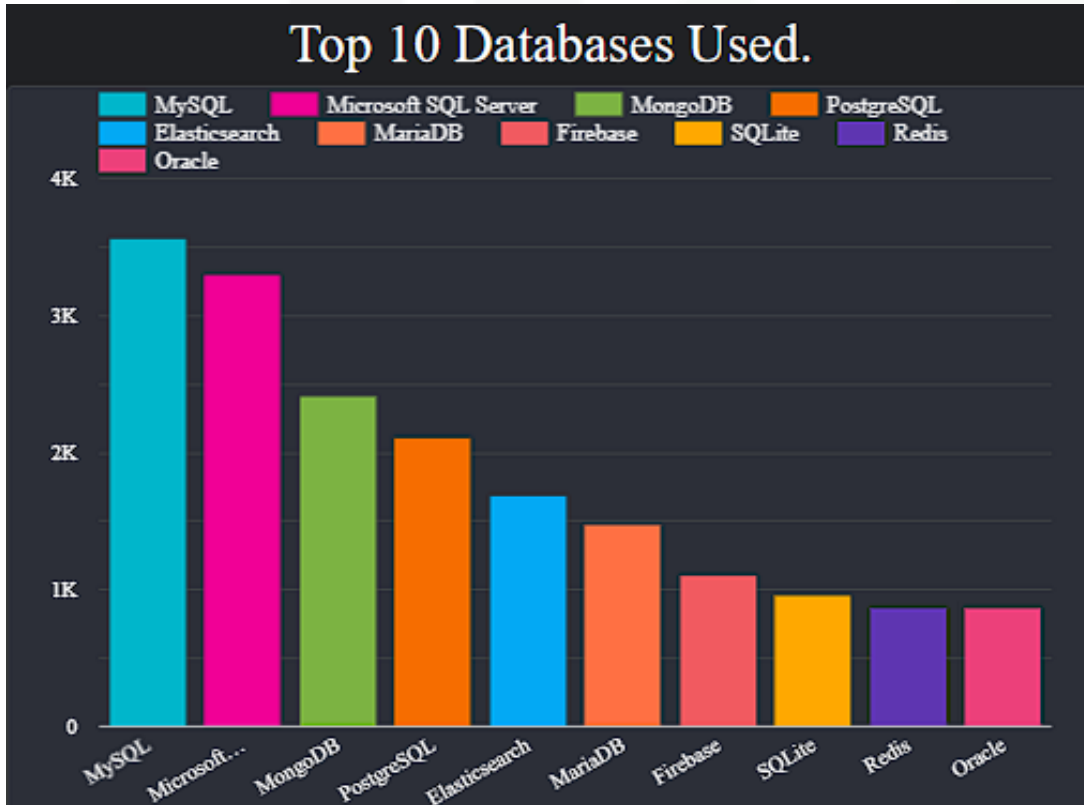
## Implications

- Developers have to migrate from the old language to new and fastest languages.

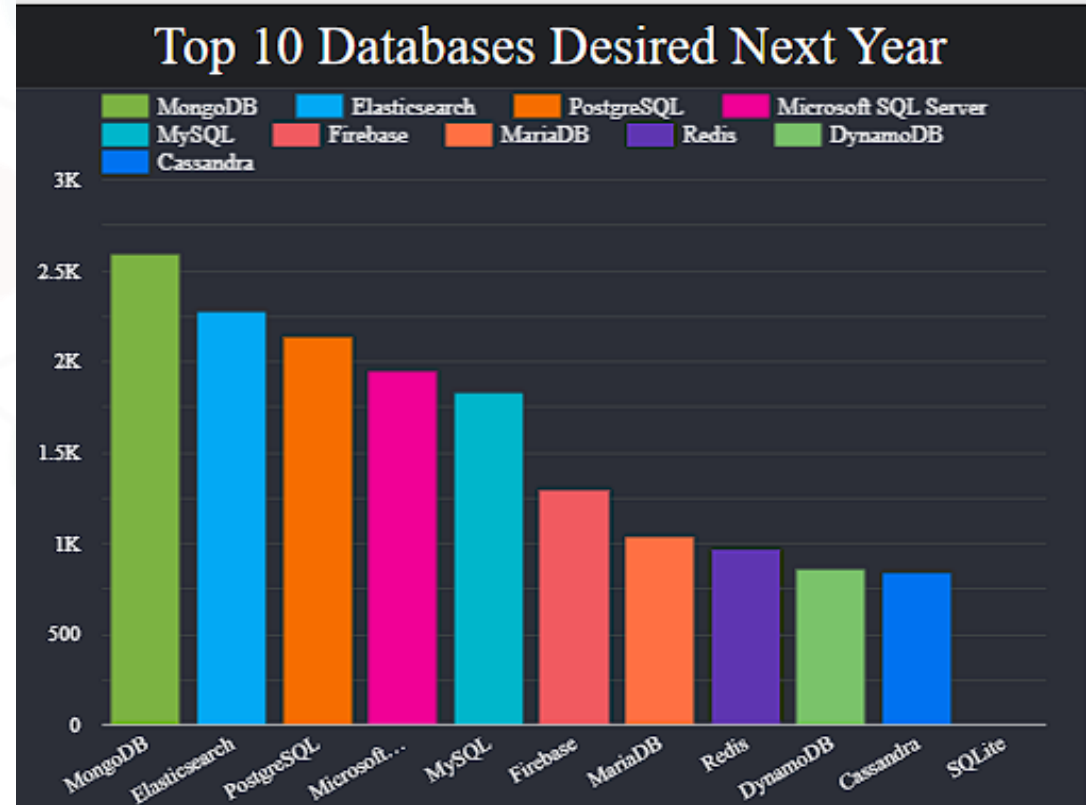


# DATABASE TRENDS

Current Year



Next Year



# DATABASE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- They lost interest in Microsoft SQL and MYSQL.
- Mongo DB, Elastic Search and Postgre Sql become the popular data base applications preferred by the developers.
- SQL holds the state of most used database during the year by developers.

## Implications

- Establishments of Mongo Db, Postgre Sql in the companies and organizations.
- Moving from MYSQL and Microsoft sql.

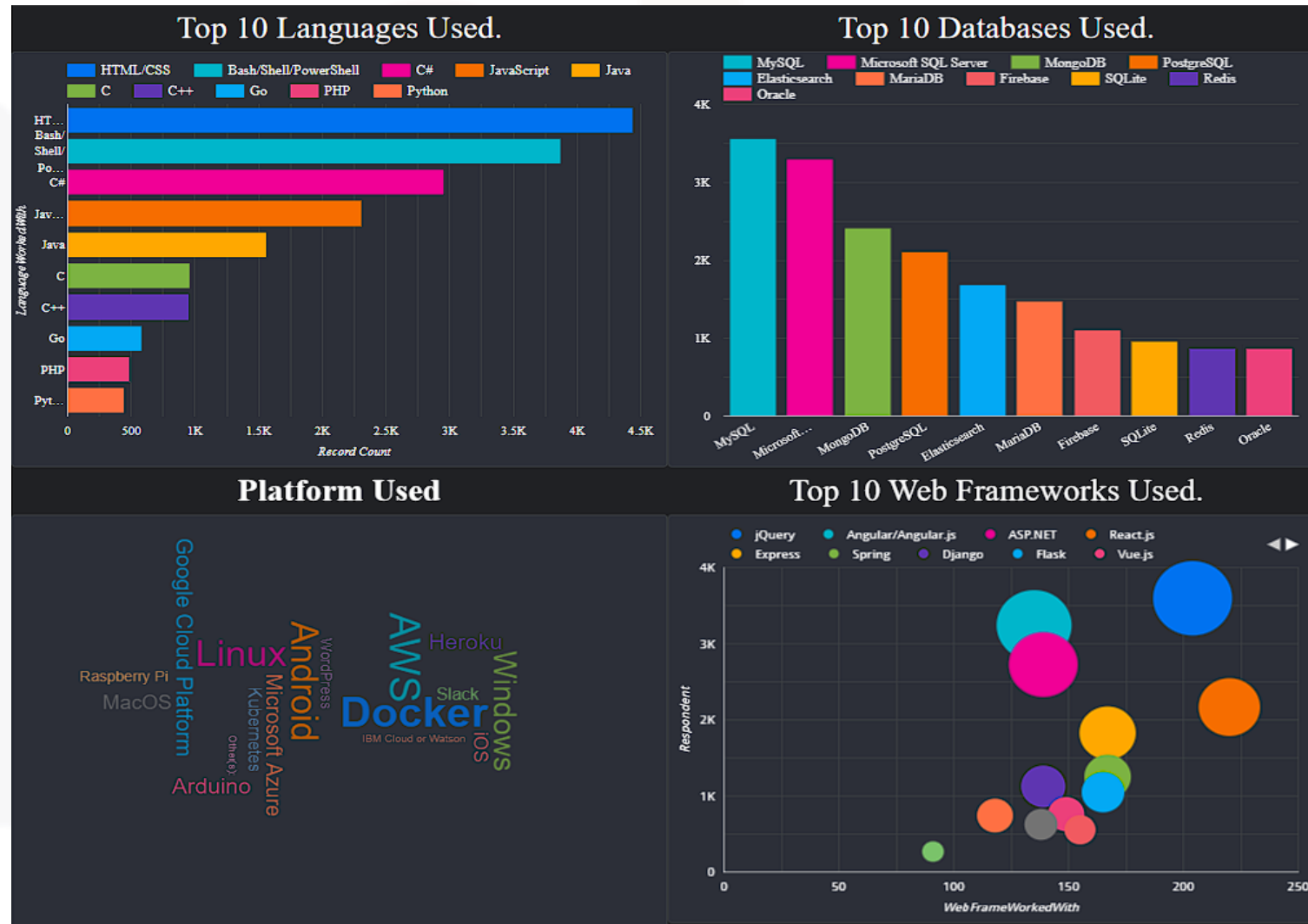
# DASHBOARD

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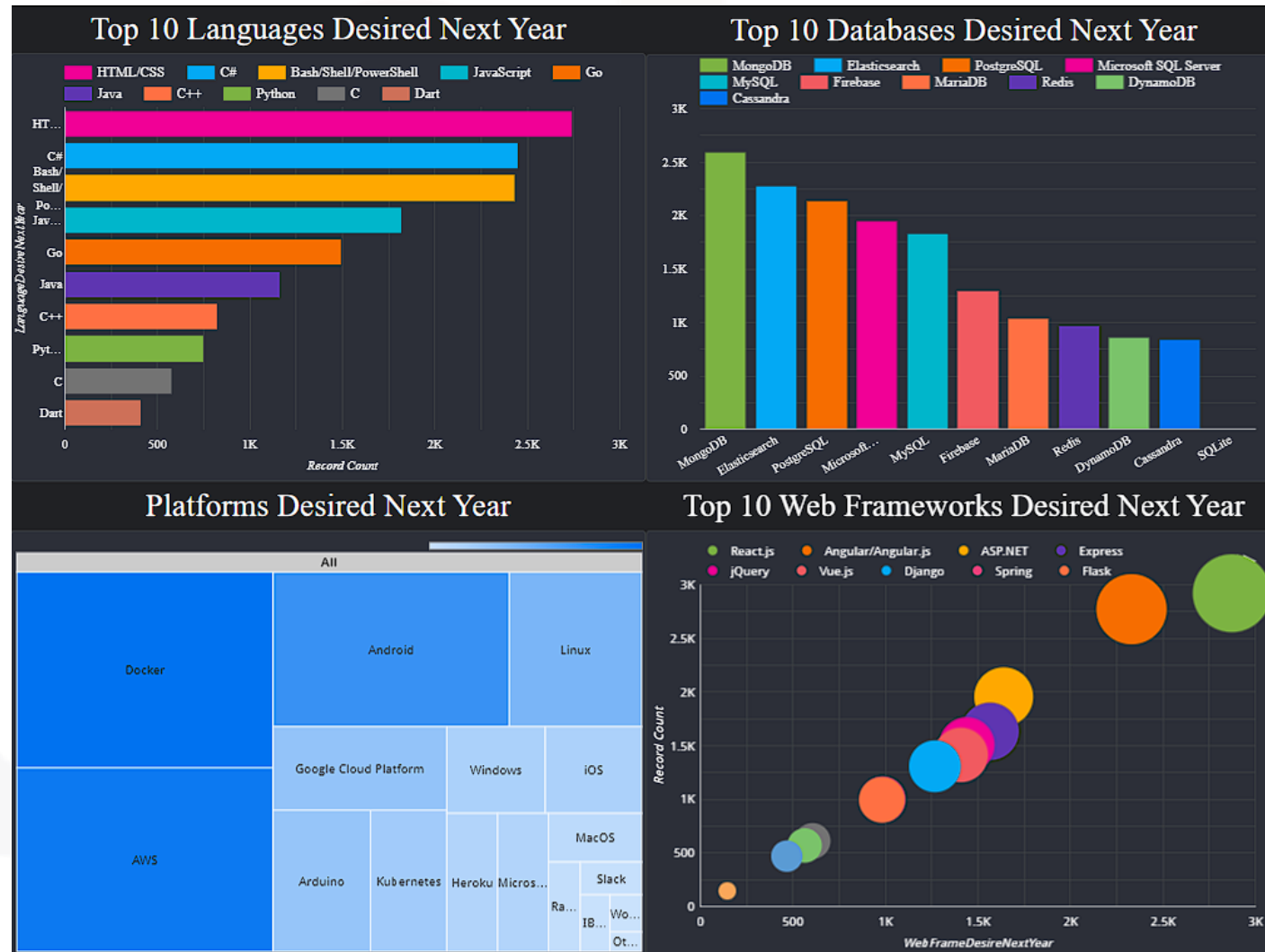


[https://github.com/DHATSHETH-ROSHAN/IBM\\_DATA\\_ANALYST\\_Capstone\\_Project/blob/f0f2925c1dec8398310923b8434347a342b39329/dashboard%20creation.pdf](https://github.com/DHATSHETH-ROSHAN/IBM_DATA_ANALYST_Capstone_Project/blob/f0f2925c1dec8398310923b8434347a342b39329/dashboard%20creation.pdf)

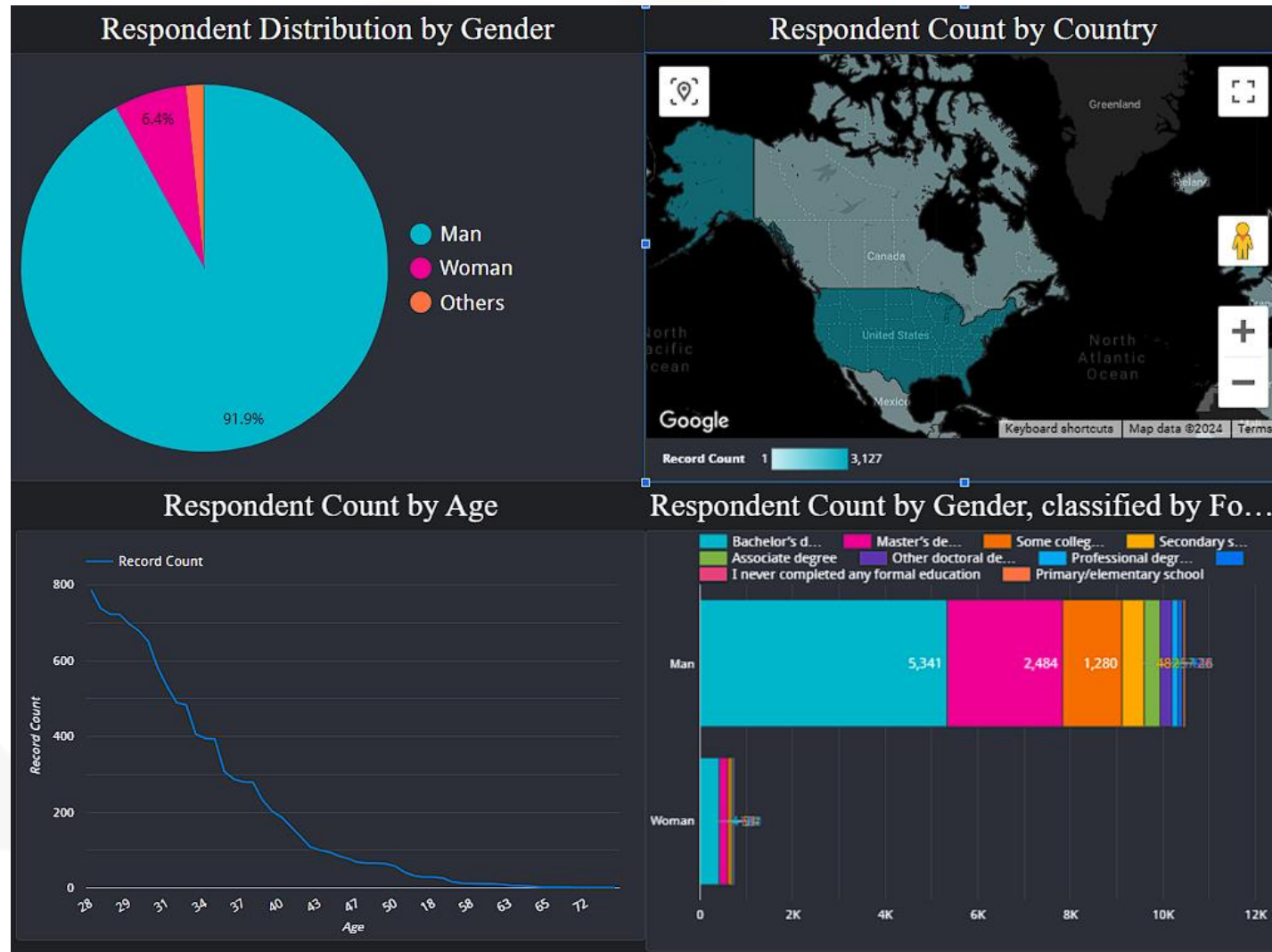
# DASHBOARD TAB 1



# DASHBOARD TAB 2



# DASHBOARD TAB 3



# DISCUSSION

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# OVERALL FINDINGS & IMPLICATIONS

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## Findings

- Widely used programming language was java script
- More than 90% of developers are male.
- Newer technologies are getting trend and most of the developers are migrating to it.

## Implications

- Javascript and Typescript catching developer's interest.
- Global polarization of developer's location and Genders.
- Most of the young graduates who become developer's are without post graduation.



# CONCLUSION

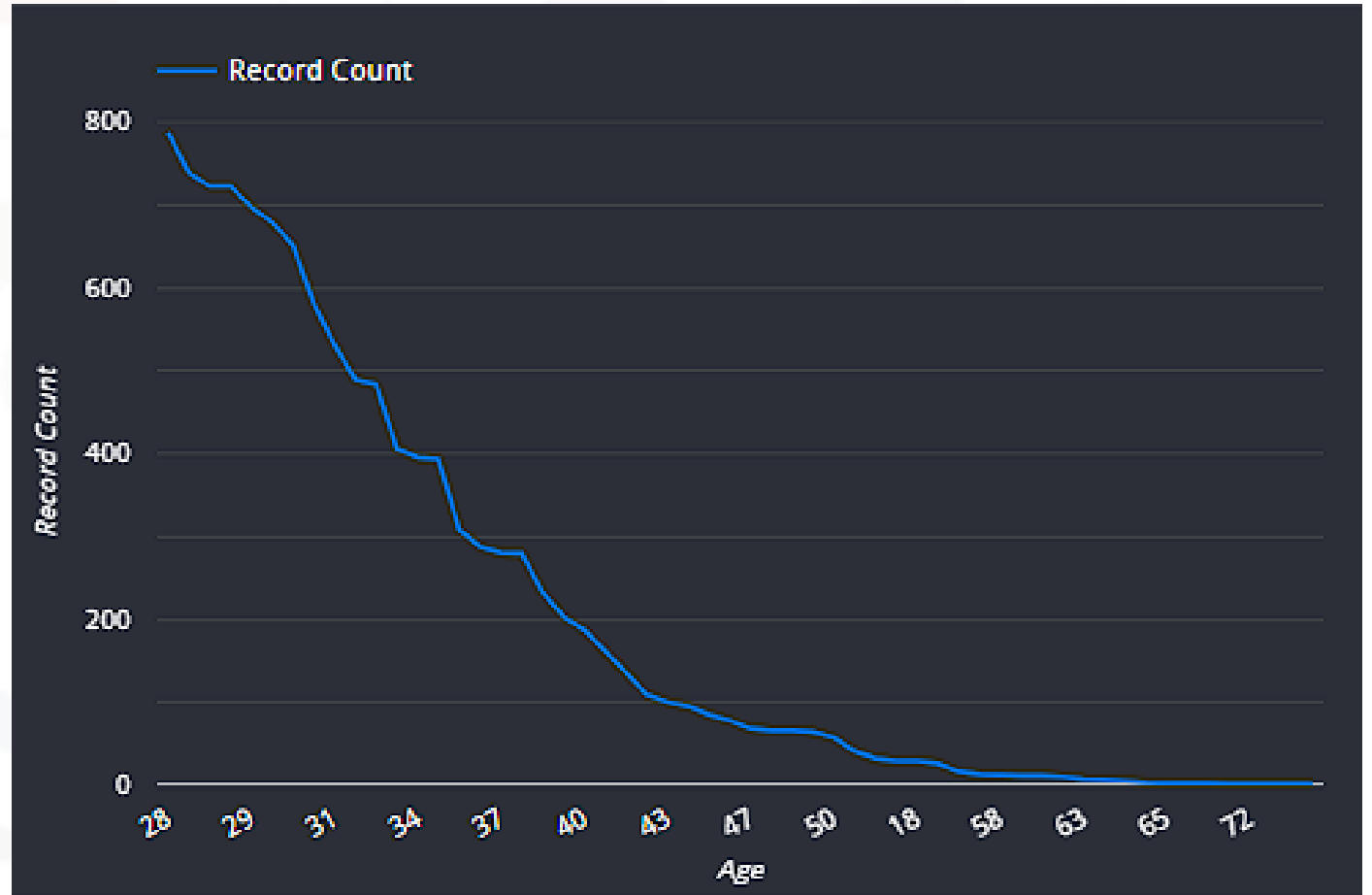
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- Developer's are having different kind of characteristics and different kind of interests.
- Overall insights shown me that people are moving towards the trending and upcoming technologies.
- Mostly of the developers are from united states.
- Python is going to make a new revolution int the programing & developer's industry.

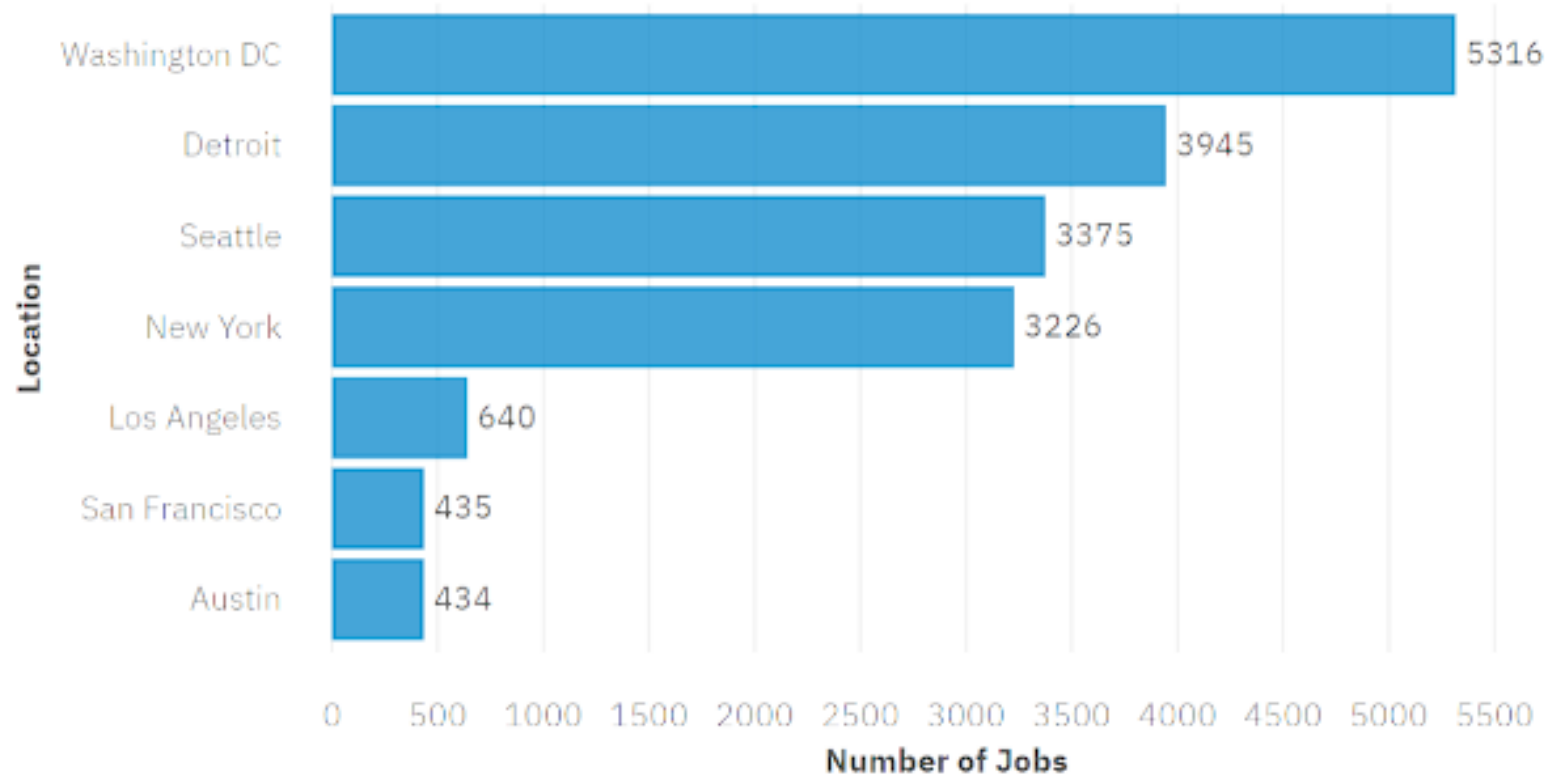
# APPENDIX

Shows the age of developer's (mostly 20-35)



# JOB POSTINGS

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# POPULAR LANGUAGES

