

# Unveiling Tomorrow's Tech: Analyzing Emerging Programming Skills for Future Success

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## OUTLINE



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

## **EXECUTIVE SUMMARY**



- Data Contextualization and analysis goal
- Methodology Description
  - Data Collection
  - Data Analysis
  - Data Visualizations
- Result Analysis and Presentation
- Discussion regarding Findings and Results
- Conclusion

#### INTRODUCTION



- Annual Developer Survey is the largest and most comprehensive survey of coding professional around the world
- Results don't represent everyone in the developer community evenly
- 90k+ developer records
- Trends to predict where the developers are going
- Characterization of developers around the globe.

## **METHODOLOGY**



- Collect survey data and exploration
- Data wrangling
- Exploratory Data Analysis
- **Data Visualization**
- Dashboarding

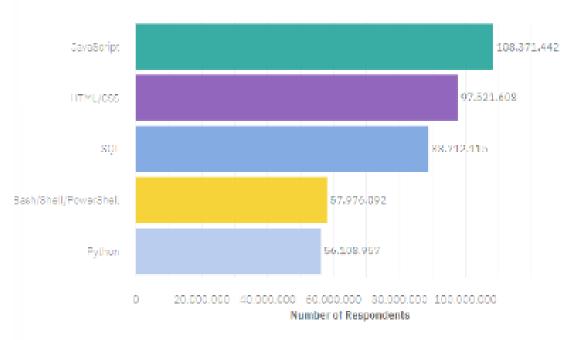
# **RESULTS**



#### PROGRAMMING LANGUAGE TRENDS

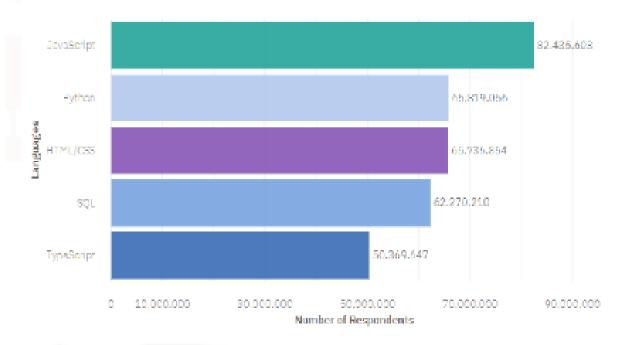
#### **Current Year**

Top 5 Programming Language Experience



#### **Next Year**





#### PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

#### **Findings**

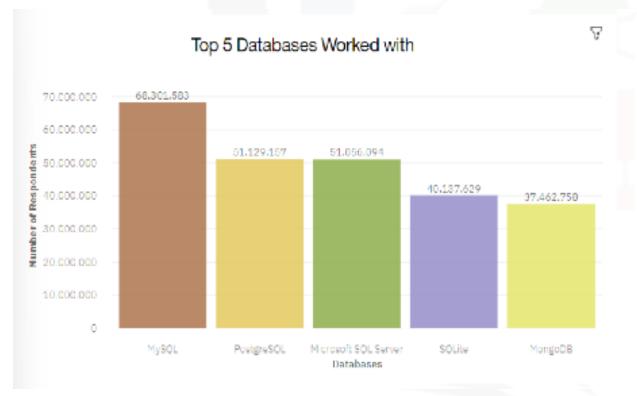
- Javascript leading
- Python fastest growing
- Greatest interesting typescript

#### **Implications**

 Developers migrate from javascript to typescript

### DATABASE TRENDS

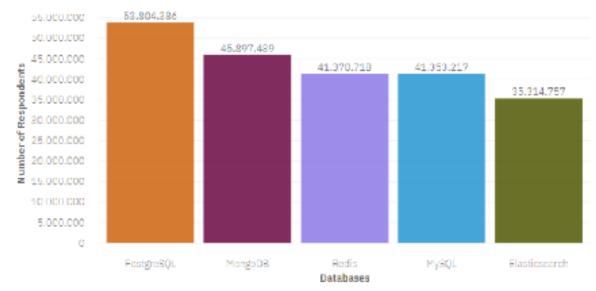
#### **Current Year**



#### **Next Year**







## DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

#### **Findings**

- MySQL as most used database
- Lack of interest in Microsoft SQL and SQLite
- Increasing interest in PostgreSQL and MongoDB

#### **Implications**

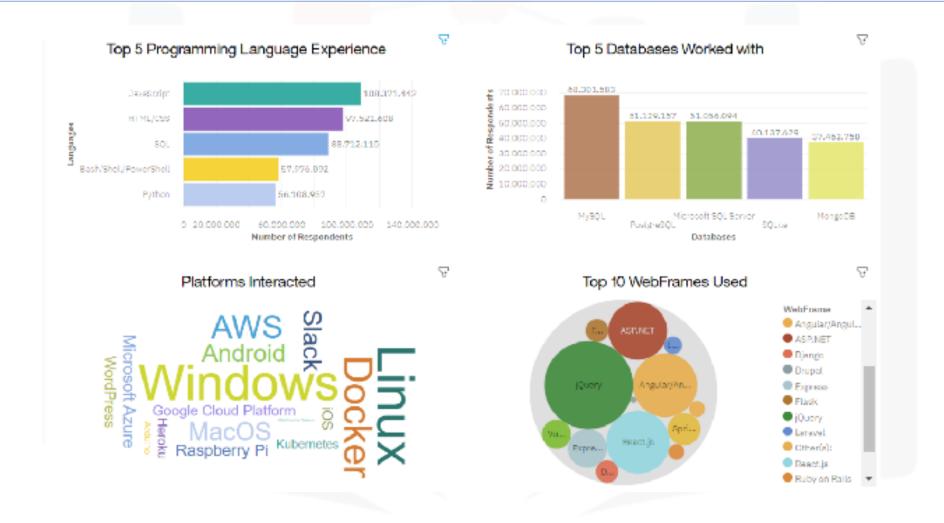
- Microsoft SQL Server and SQLite losing ground in the market
- PostgreSQL and MongoDB establishment in the market

## **DASHBOARD**

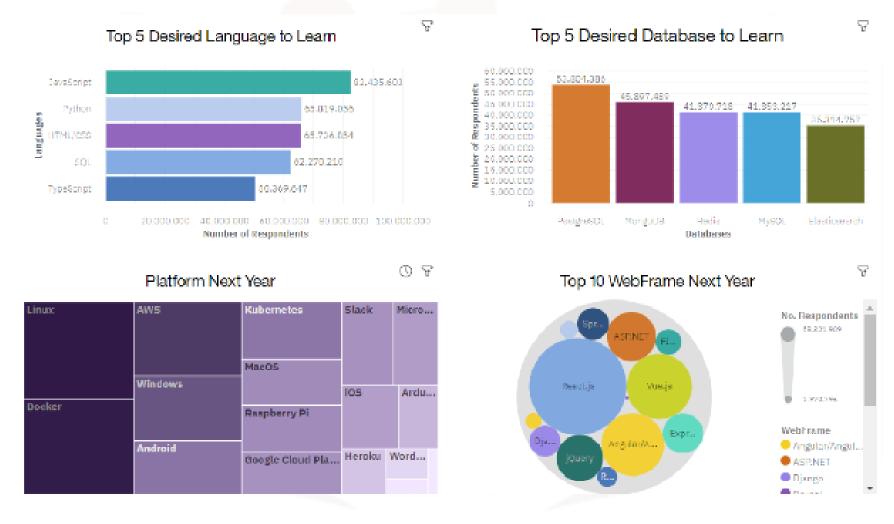


https://github.com/ishanpathak99/Applied-Data-Analytics-Capstone-project/blob/main/FDAA.pdf

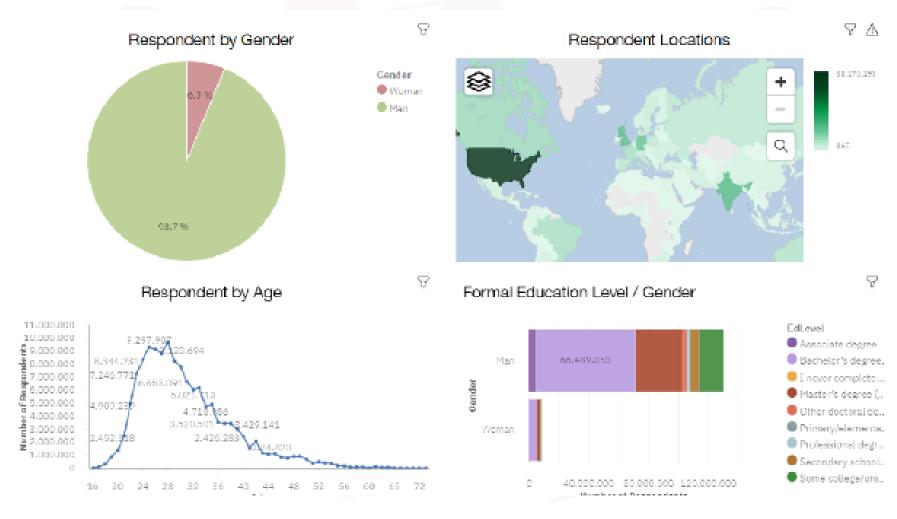
#### CURRENT TECHNOLOGY USAGE



## FUTURE TECHNOLOGY TREND



## **DEMOGRAPHICS**



# **DISCUSSION**



#### OVERALL FINDINGS & IMPLICATIONS

#### **Findings**

- Javascript widely used and Typescript gaining popularity
- Over 90% young male developers
- Developers mostly located in developed countries

#### **Implications**

- Javascript and Typescript Web frames gaining followers
- Global Polarization of developer's location and gender
- Young Developers without postgrad are in majority



#### CONCLUSION



- Developers are people with very marked characteristics
- A good idea of popularity trends of different tools, platforms and languages can be obtained
- There is a job to be done to spread accessibility of this labor market to countries in development.

# **APPENDIX**



## JOB POSTINGS

