

TECHNOLOGY TRENDS

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OUTLINE



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EXECUTIVE SUMMARY



- Web technologies: JavaScript, HTML, CSS are the most popular web technologies.
- Web frameworks: React.js and jQuery are the hottest web frameworks.
- **Development platforms:** Windows and Linux are the most popular development platforms.
- Mobile platforms: Android is the most popular mobile platform.
- Databases: MySQL is the most popular database, but MongoDB and PostgreSQL are gaining popularity.

INTRODUCTION



- Technology market: The technology market is constantly changing, so it is important to stay up-to-date with the latest trends.
- Latest technology: The latest technology in each field can provide a competitive edge.
- Technology trend: Comparing the current and next year technology trends can give you insights into the market.
- **Study:** The study consists of four main parts:
 - Top language: The most popular programming languages.
 - Top database: The most popular databases.
 - Top platform: The most popular development platforms.
 - Top web frame: The most popular web frameworks.

METHODOLOGY



- **Technology trend:** The study of the current and future usage of technology.
- Data: The data was from the Stack Overflow Developer Survey 2019.
- Visualization: Different types of charts, such as bar, line, pie, tree-map, will be used to visualize the data.
- Dashboard: The IBM dashboard will be used to analyze the data and create the visualizations.

RESULTS



- The results consists of 4 main parts:
 - Programming language trend
 - Database trend
 - Platform trend
 - Web frame trend

PROGRAMMING LANGUAGE TRENDS

8,000

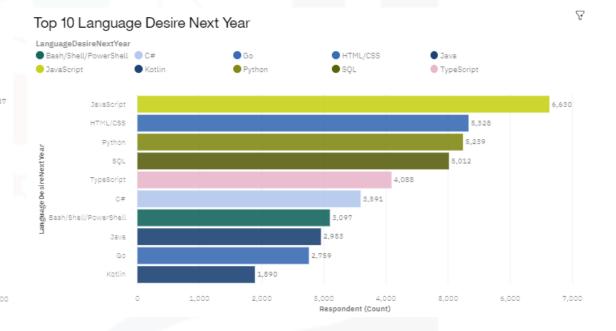
Current Year

Top 10 Language Worked With Top 10 Language Bash/Shell/PowerShell C# C++ HTML/CSS JavaScript Python TypeScript 8,687 JavaScript HTML/CSS 7,106 SQL Bash/Shell/PowerShell 4.642 4,542 Python Java 4,288 0# 3,232 TypeScript

5,000

Respondent (Count)

Next Year



DHD

PROGRAMMING LANGUAGE TRENDS FINDINGS & IMPLICATIONS

Findings

- JavaScript and HTML/CSS are the most popular programming languages for web development.
- Python is becoming increasingly popular for data science, machine learning, and artificial intelligence.
- C++ and PHP are being replaced by newer languages, such as Rust and Go.

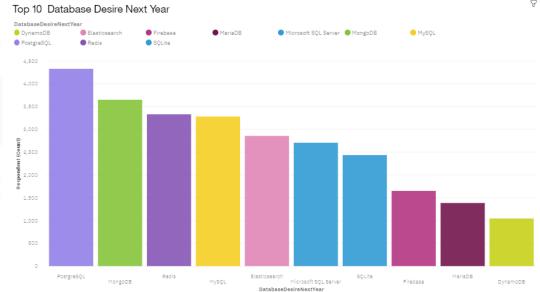
- Web programming languages will still dominate the near future.
- Python and data science are becoming increasingly important.
- Legacy languages such as C++ and PHP are gradually falling out of interest.

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- MongoDB and Redis are quickly gaining popularity and are now ranked 2nd and 3rd, respectively.
- PostgreSQL has moved up to the top spot, replacing MS SQL Server.
- MS SQL Server has dropped to the 5th spot, and Oracle has disappeared from the top 5.

- Open source databases are becoming more popular than commercial databases.
- Non-relational databases are seeing increasing usage, but relational databases still take the lead.

PLATFORM TRENDS

Current Year



Next Year

Platform Desire Next Year



PLATFORM TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- Windows and Linux are still the dominant platforms for both desktop and server applications.
- Android is the No. 1 mobile platform, followed by iOS and Windows Phone.
- Cloud platforms such as Kubernetes, Docker, and AWS are gaining more and more market share.

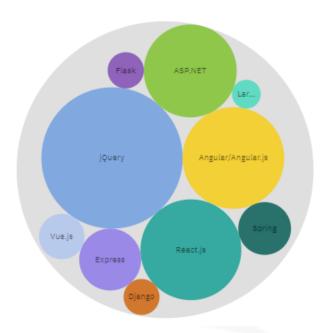
- Windows and Linux are still the main development platforms in the foreseeable future.
- The transformation to cloud computing is a non-reversible process.

WEB FRAME TRENDS

Current Year

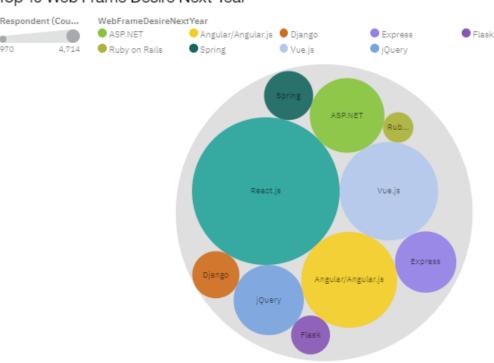
Top 10 Web Frame Worked With





Next Year

Top 10 Web Frame Desire Next Year



WEB FRAME TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- jQuery's popularity has decreased, while React.js and Vue.js have become more popular.
- Angular.js has remained relatively stable in popularity.

- jQuery has lost market share and is no longer the standard for web framework development.
- React.js and Vue.js have become the new standard for web framework development.

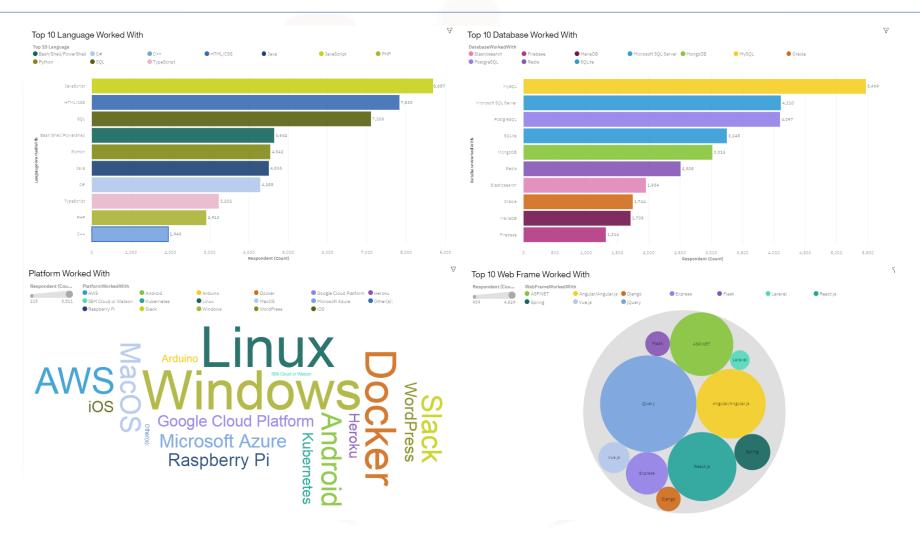
DASHBOARD



https://github.com/DrRuin/IBM-Data-Analyst/blob/main/IBM%20Data%20Analyst%20Capstone% 20Project/Cognos%20Dashboard.pdf

- Github link cause I don't want it to get lost in future and can come back, take a look at anytime I want!

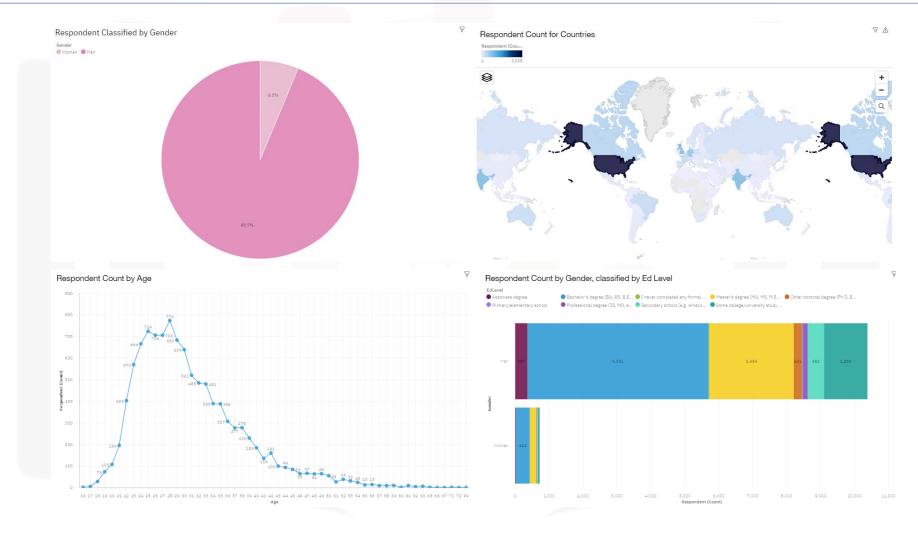
DASHBOARD TAB 1



DASHBOARD TAB 2

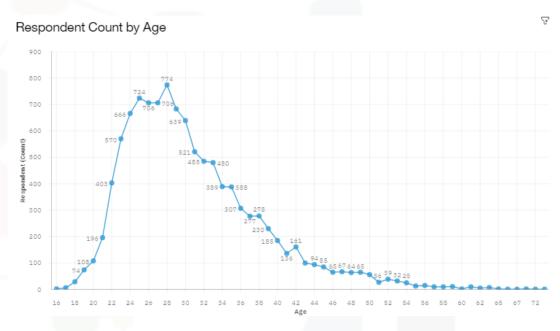


DASHBOARD TAB 3



DISCUSSION





 Majority of respondents are at young age (20, 30s) → this could skew the result in favor of new technology.

OVERALL FINDINGS & IMPLICATIONS

Findings

- Web-based languages are still the most popular, with JavaScript staying at the top.
- Non-relational databases are gaining popularity, with MongoDB and Redis moving to the 2nd and 3rd spots.
- Cloud-based platforms are becoming more popular, with AWS moving to the top spot.
- React.js remains the most popular web framework.

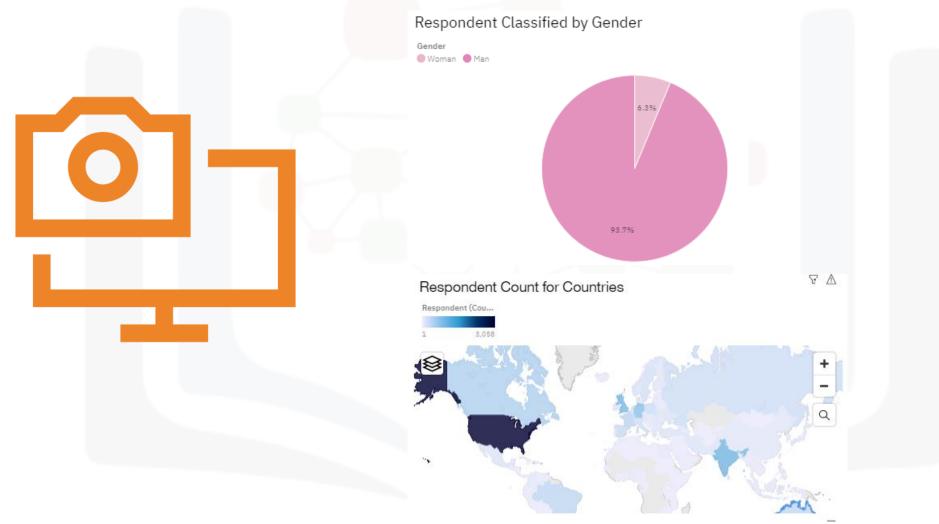
- Web-based applications are taking over traditional applications.
- Non-relational databases are seeing increasing adoption.
- Cloud-based services are becoming the top choice for platform development.

CONCLUSION

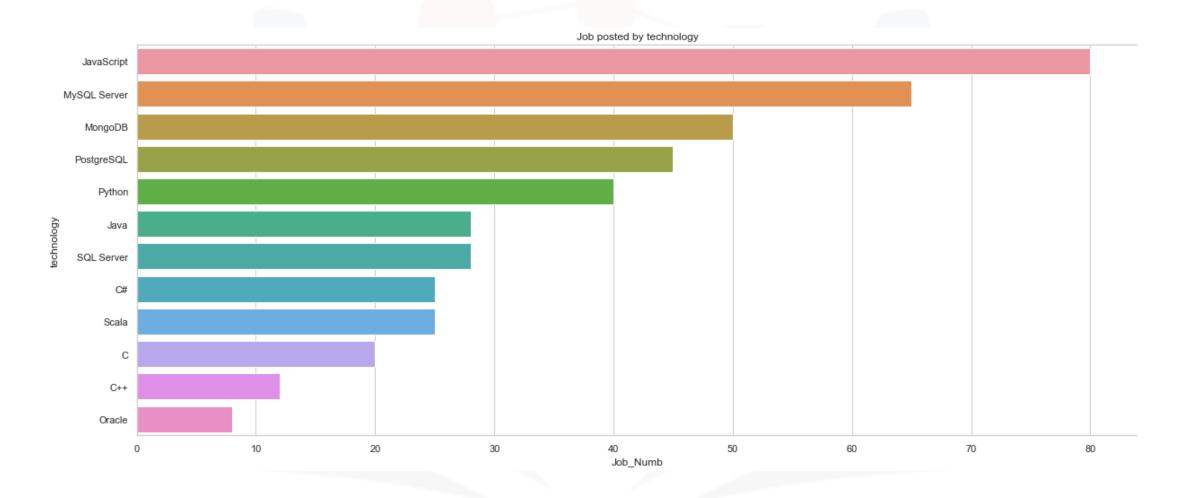


- To stay relevant in the technology field, it is important to learn web-based languages and non-relational databases.
- React.js is the best web framework to learn for your future.
- Cloud-based services are the right direction for IT investment.

APPENDIX



GITHUB JOB POSTINGS



POPULAR LANGUAGES

