

TRENDS & FUTURE SKILL REQUIREMENTS

KENAN YILDIRIM

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OUTLINE



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EXECUTIVE SUMMARY



- The most popular technologies are JavaScript, HTML and SQL.
- As Web Frames jQuery and React.js are leaders.
- Windows and Linux dominate the platforms.
- Android's demand is still bigger than IOS.
- Future trends in programming languages, platforms and databases.
- As a demographic survey technological and gender differences among the countries.

INTRODUCTION



- Changing the demands in technology market is quite fast.
- In IT Field it is important to stay up to date and follow the trends.
- The comparison between current & next year technology is core of study.
- The main parts of study;
 - Top languages using
 - Top databases using
 - Top platforms using
 - Demographic effects

METHODOLOGY



- The data was from the 'Stack Overflow Developer Survey 2019'.
- Data Collection.
- Data Exploration.
- Data Cleaning.
- Data Visualization with dashboards.
- Presentation for the study and results.

RESULTS

•The results will be shared by dashboards and different charts that show the relationships between languages, platforms and databases according to the demographic specialties.

PROGRAMMING LANGUAGE TRENDS



PROGRAMMING LANGUAGE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- JavaScript, HTML/CSS, SQL are top 3 of this year.
- Python and Typescript are becoming popular in the next years.

Implications

- Web programming languages and web development are stay the most wanted in near future.
- Python is becoming the most learned tool.
- SQL still stays one of the important tool-language in IT world in the near future.

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- MySQL will lose its most popular place.
- Oracle will be disappeared from the market.
- PostgreSQL, MongoDB and Redis are upcoming favorites.

Implications

- Open source databases become more popular and desired compared with commercial one.
- Non-relational database see increasingly usage in the future.
- Big Data effect on the market.

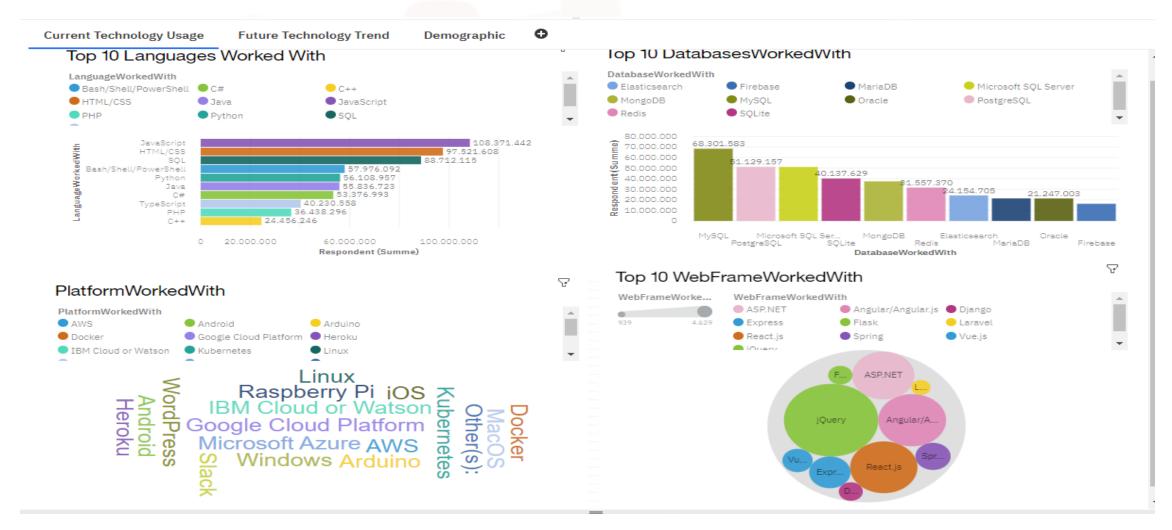
DASHBOARD



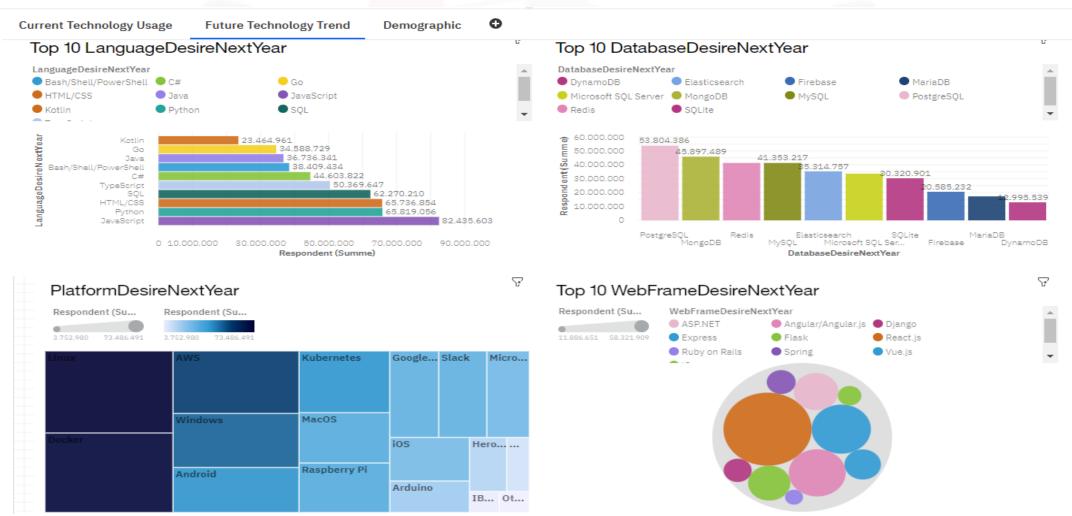
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CURRENT TECHNOLOGY USAGE DASHBOARD



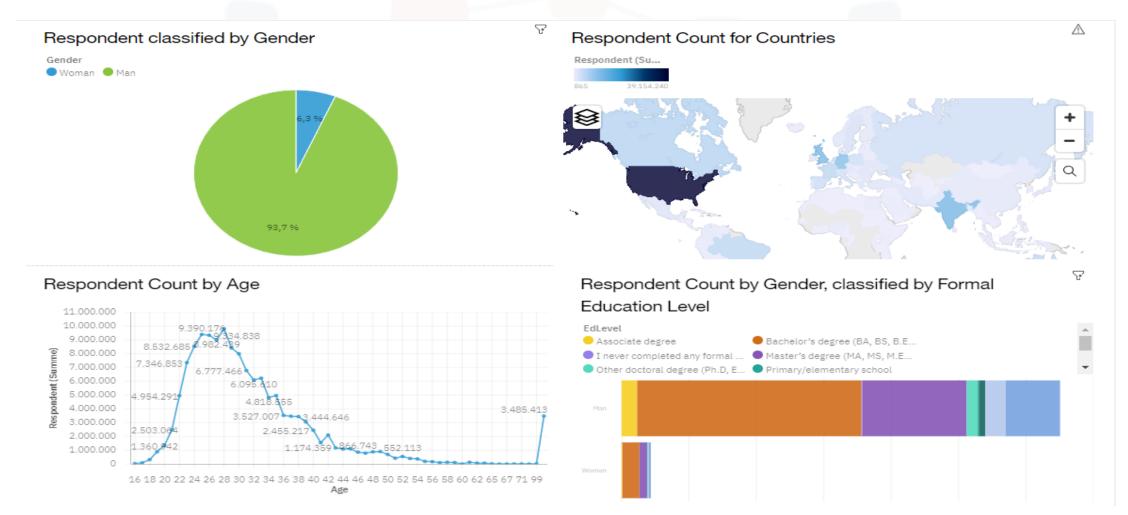
FUTURE TECHNOLOGY TREND DASHBOARD



IBM Developer

SKILLS NETWORK

DEMOGRAPHIC DASHBOARD



DISCUSSION



- Effects on the technology trends.
- Finding workers with the new hard skills.
- Demographic criterias variation in IT.
- Can be a possible gamechanger for the future predictions?

OVERALL FINDINGS & IMPLICATIONS

Findings

- The growing of Cloud platforms.
- Usage of Non-relational databases is increasing in the future.
- Open source databases are become more popular.
- Demographic effects changes the development of IT tools.

Implications

- Companies and IT professionals should be more flexible comparing to past.
- More Invesment on Cloud Platforms.
- Multi-skilled workers will be hired.
- Some countries dominates this market in the future.

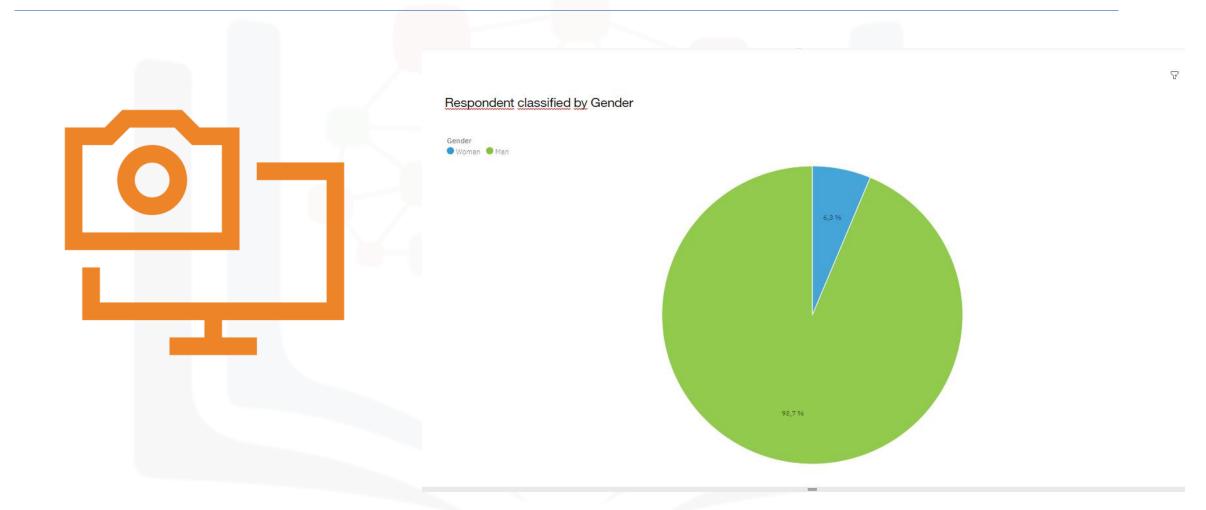


CONCLUSION

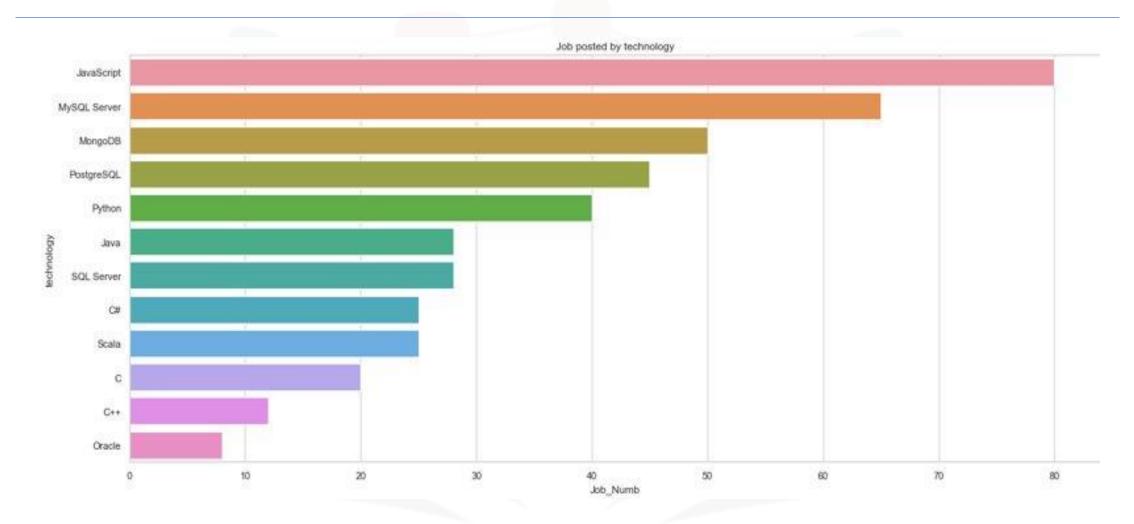


- Big Data and cloud platforms will be essential for everybody in IT industry.
- The importance of up to date to stay.
- Cloud-based service is the right direction for IT investment.
- Artificial Intelligence effect on trends and future.

APPENDIX



JOB POSTINGS



POPULAR LANGUAGES

