



Dashboard Building With
IBM Cognos Analytics

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OUTLINE



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- Methodology
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- Discussion
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EXECUTIVE SUMMARY



- HTML/CCS is the top 10 most commonly used and desired language next year
- 3 databases are top 10 for most desired next year
 - MongoDB
 - Elastic search
 - PostgreSQL
- Docker is the top platform desired next year
- Women has the highest respondent
- Over 5,000 men have bachelors degree from respondent

INTRODUCTION



- **Nature of the Problem:** The technology landscape is constantly evolving, making it essential for professionals and organizations to stay updated on the most in-demand programming skills.
- **State of the Problem :**With the rapid pace of change in the tech industry, identifying the top programming languages, database skills, and popular IDEs is crucial for maintaining a competitive edge.
- **Questions for Analysis:**
 - What are the top programming languages currently in demand?
 - Which database skills are most sought after?
 - What are the most popular Integrated Development Environments (IDEs)?
 - This report is for anyone interested in learning database or programming language with the next one year

METHODOLOGY



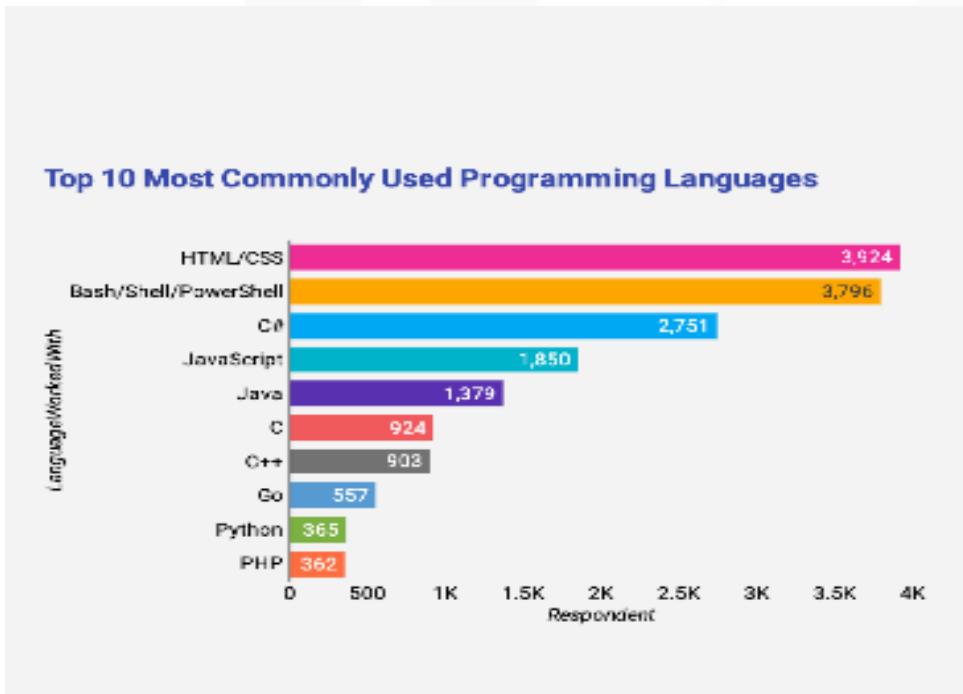
Data source used are

- M5 survey demographic
- M5 survey technology normalized
- After preparing the data using data wrangling techniques and filiation method statistical analysis was applied to uncover trends and insights.

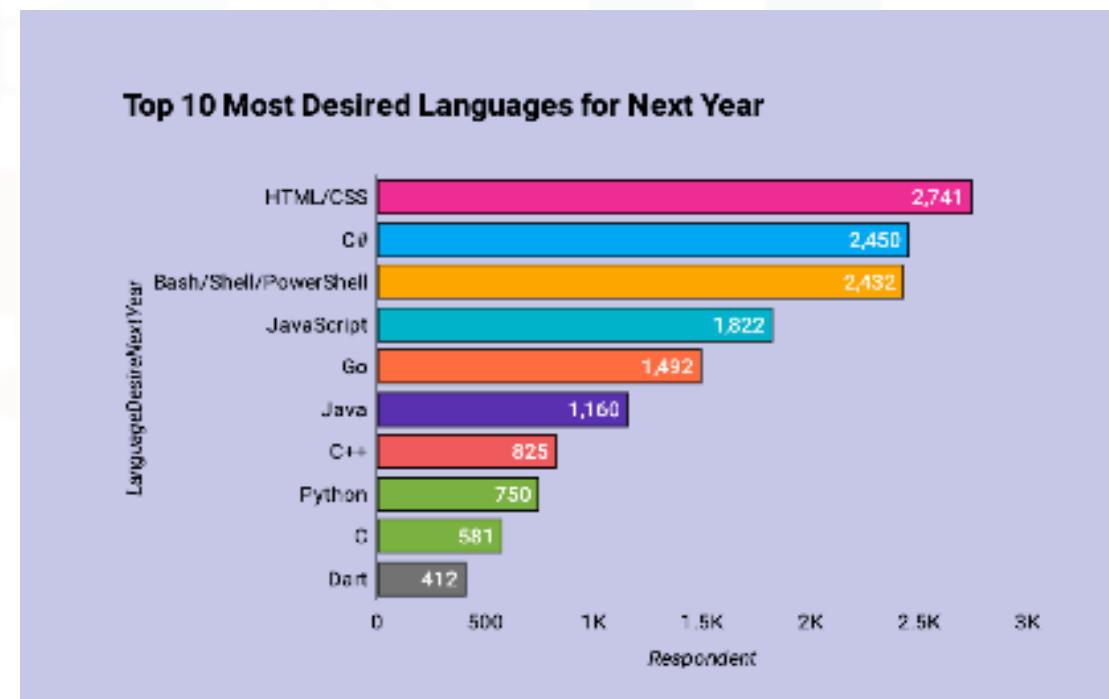
RESULTS

Programming Trends for current & Future Year

Current Year



Next Year



Programming Trends for Current & Future Year

Findings:

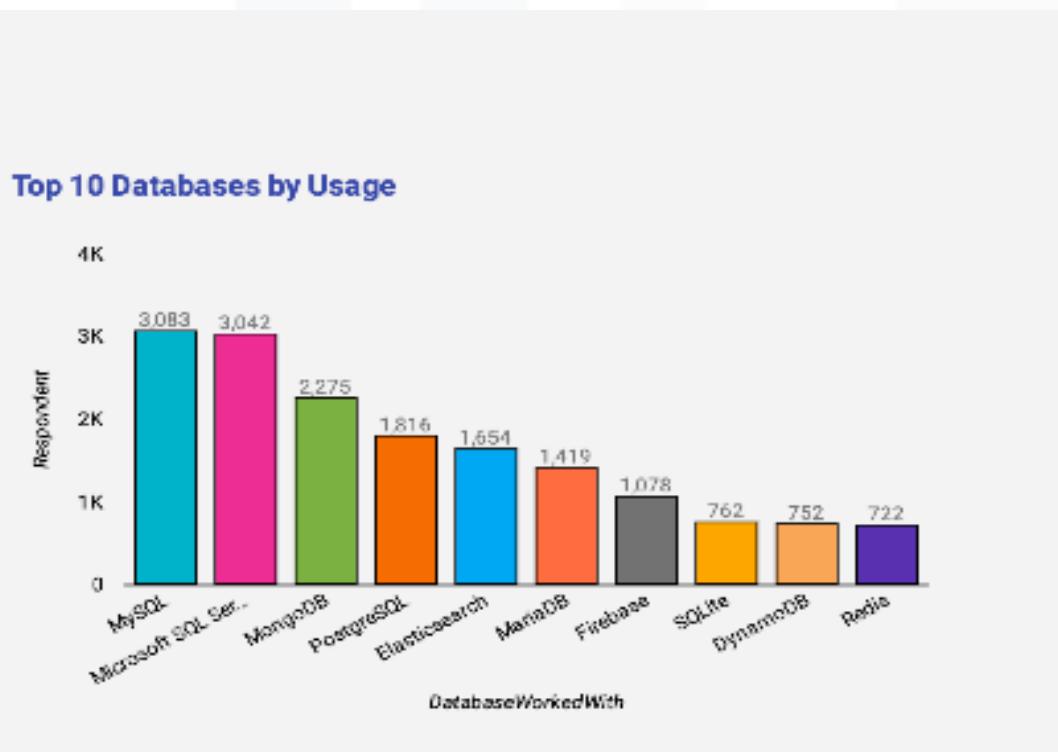
- The majority of the tech field are
 - over 24 and under 40 years old.
 - Most of the respondents want to
 - use the platform Linux and the web frame React JS
 - Most of the respondents are
 - from USA

Implications:

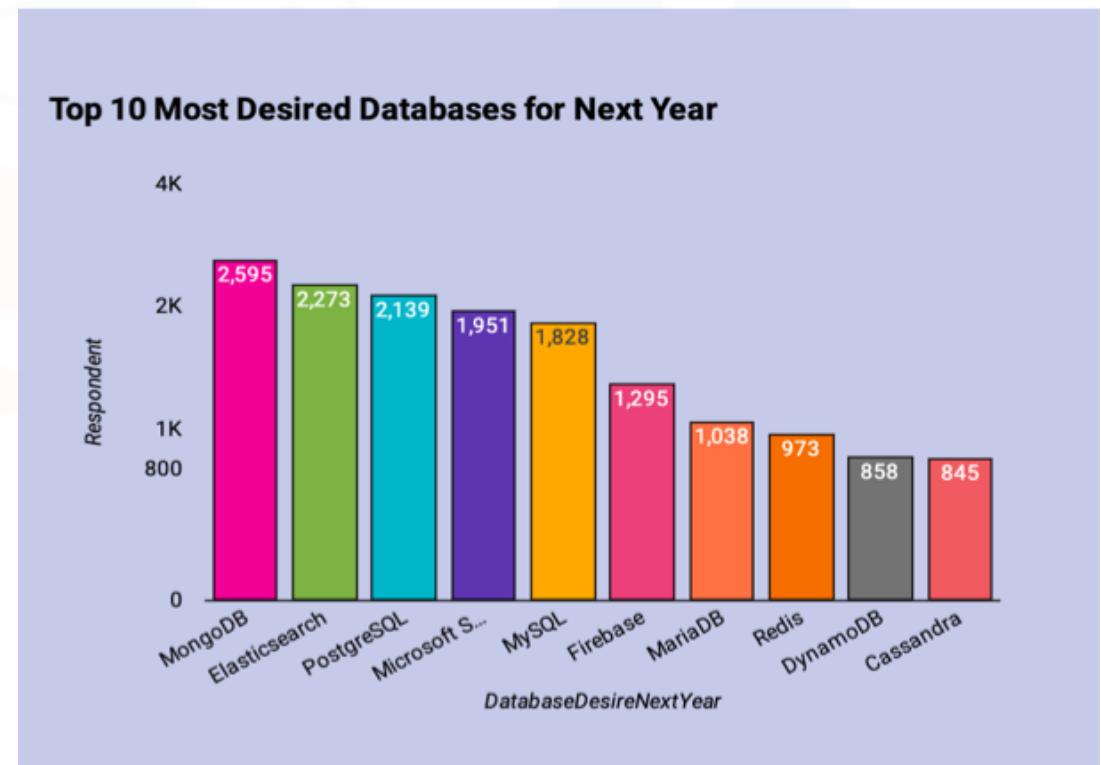
- Data professionals will need to learn NoSQL databases, as their usage will increase next year.
- Less developed countries need
- More investments in tech education

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

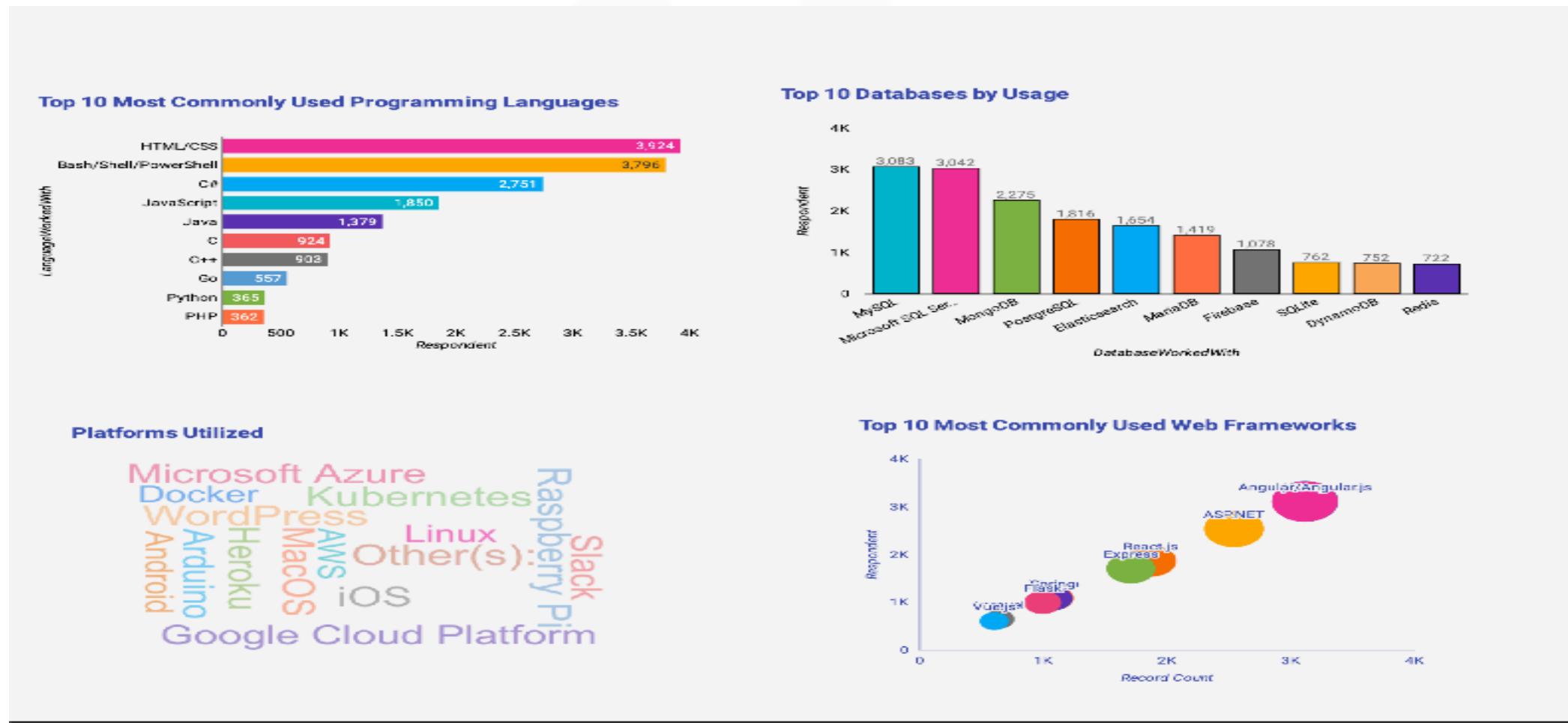
- Findings:
 - MySQL most popular
 - Behind is Microsoft
 - SQLMongoDB and Redis are upcoming favorites
 - New kid on the block:Elasticsearch
-
- Implications:
 - Open source databases are still preferable in companies
 - NoSQL databases will make an impact for storing non relational data
 - Redis supports abstract data types
 - Pre tuned search to website, app, or ecommerce store

DASHBOARD



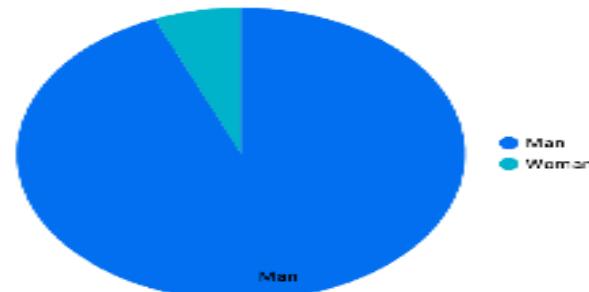
<https://github.com/Kolexi94/Course-9-Capstone->

DASHBOARD TAB 1



DASHBOARD TAB 2

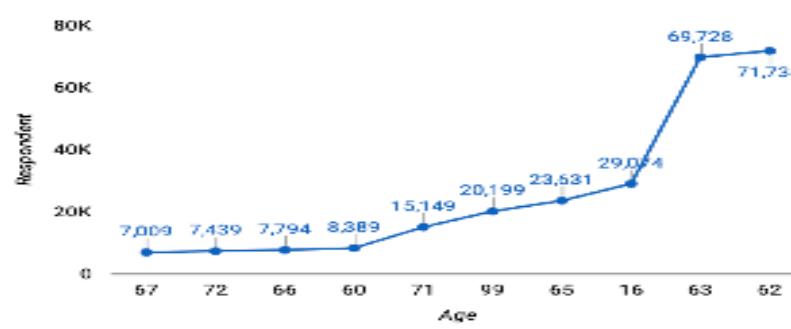
Respondent Distribution by Gender



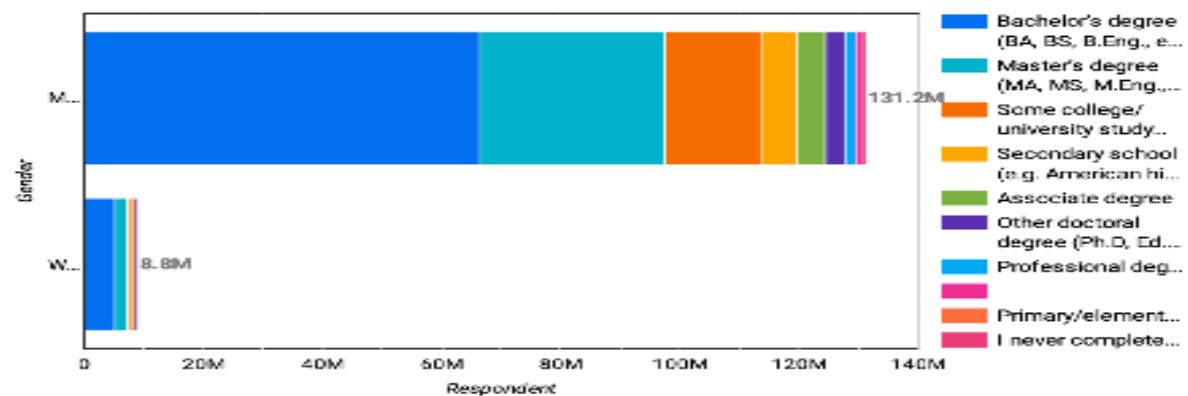
Geographic Distribution of Respondents



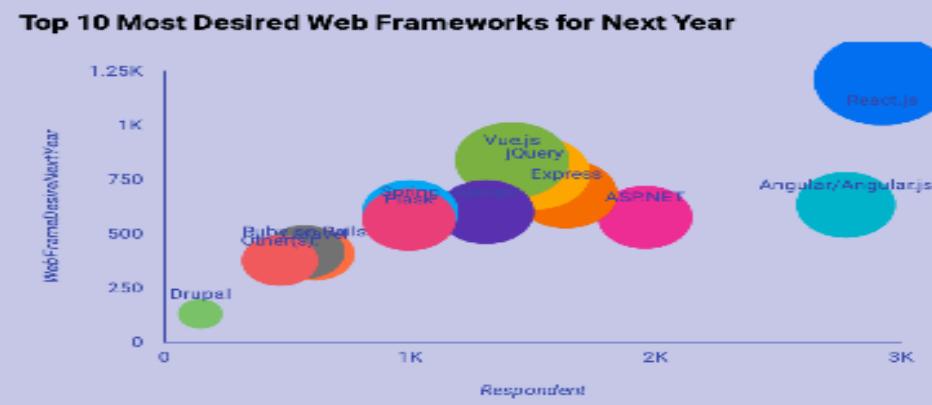
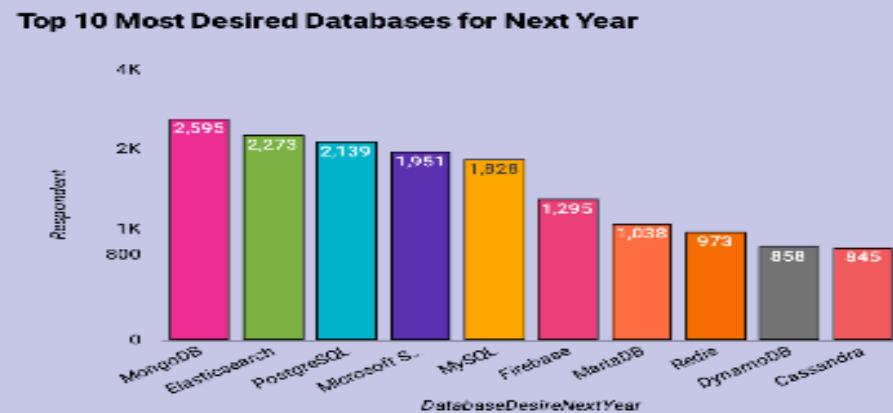
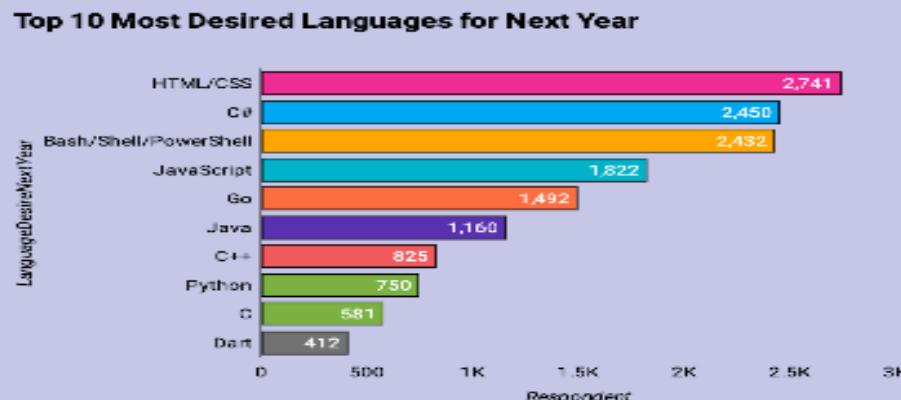
Respondent Counts by Age Range



Gender Distribution Across Education Levels



DASHBOARD TAB 3



DISCUSSION



- HTML/CCS is the top 10 most commonly used and desired language next year
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- Women has the highest respondent
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OVERALL FINDINGS & IMPLICATIONS

Findings:

- Technology changes
- Gender gap in technology jobs
- Platforms Docker and AWS

Implications:

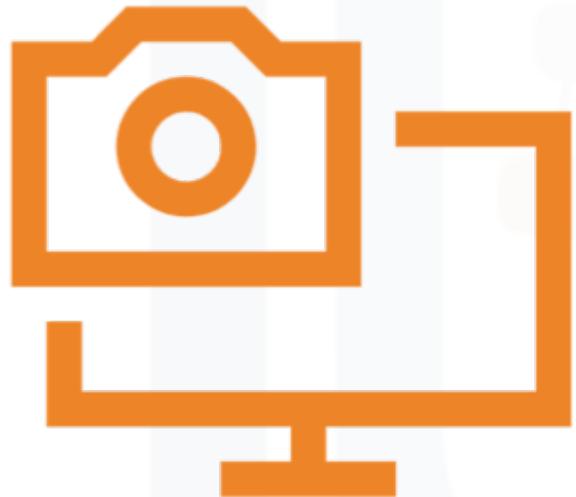
- Company flexibility
- New technology spread
- Shift to faster app deployment

CONCLUSION



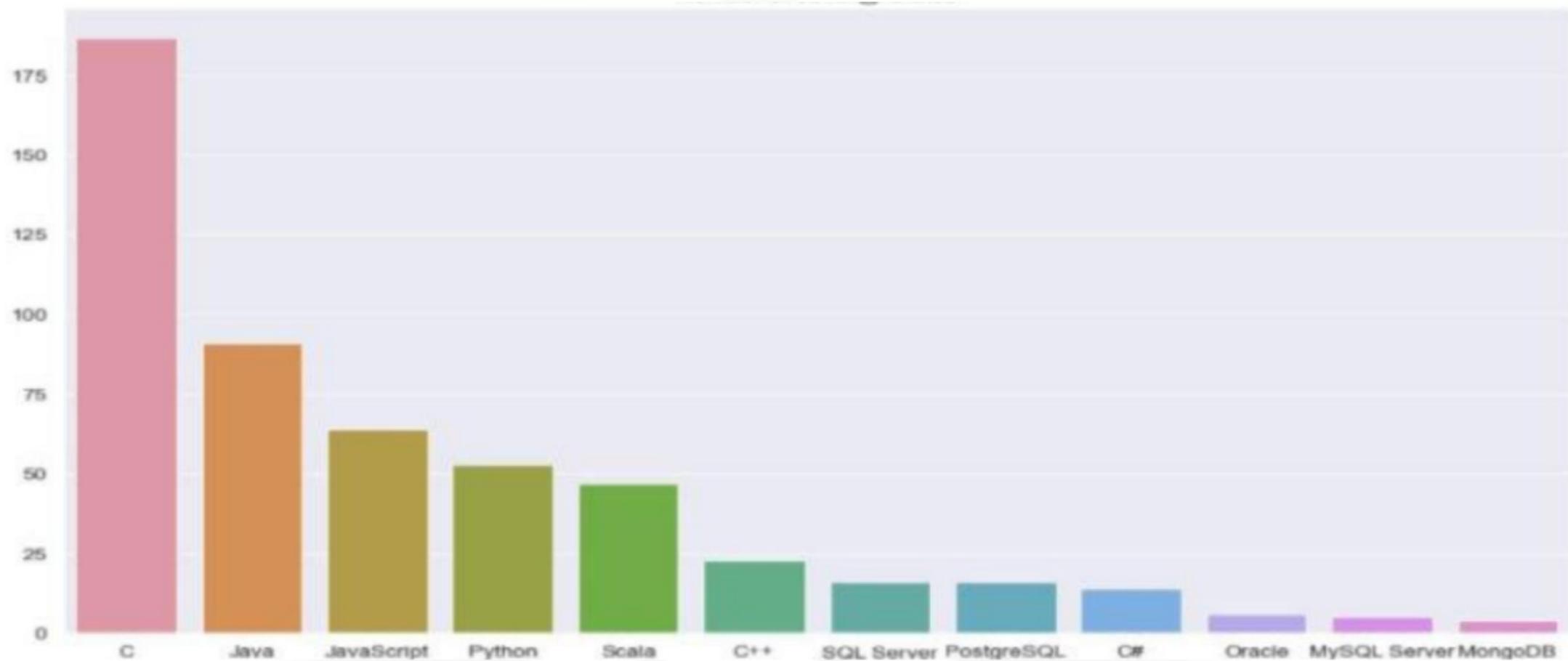
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APPENDIX



- Include any relevant additional charts, or tables that you may have created during the analysis phase.

JOB POSTINGS



POPULAR LANGUAGES

