



Insights of Technology Trend

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OUTLINE



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



- Current Technology Trend
 - Programming Languages
 - Database
 - Platform
 - Web frame
- Future Technology Trend
 - Programming Languages
 - Database
 - Platform
 - Web frame
- Demographic factors of Respondents
- Other Charts

INTRODUCTION



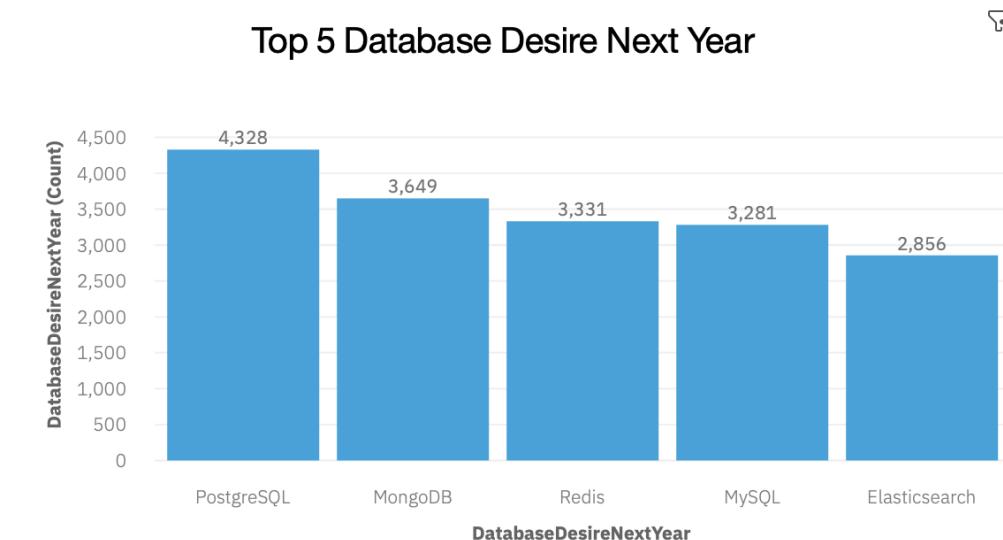
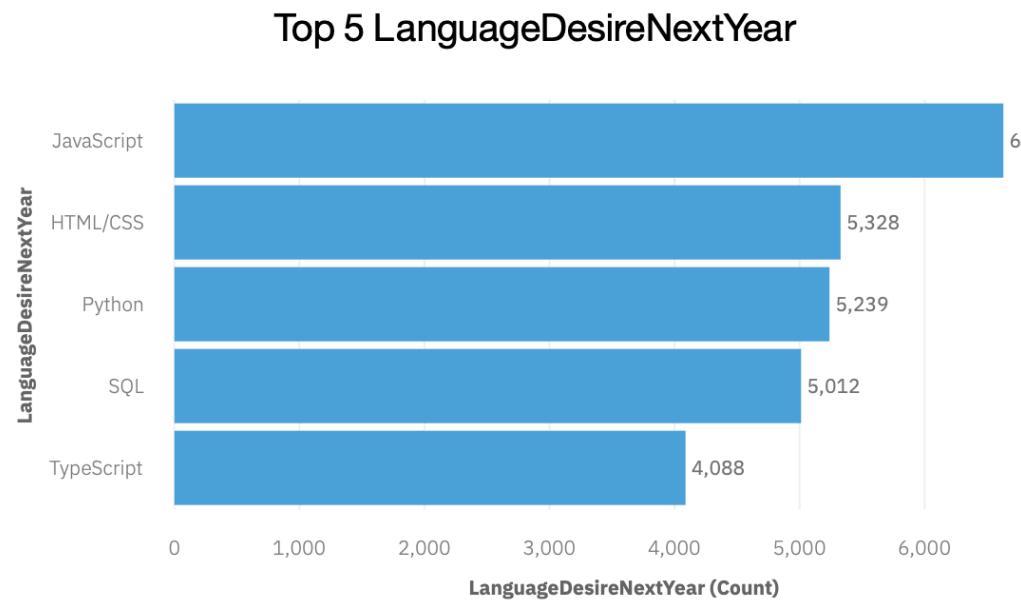
- Objective of Report
 - Identifying insights of Programming skills
 - Preparing for changing technologies
- What you need to focus on
 - Future Programming language requirements
 - Future trends of database skill, IDEs

METHODOLOGY



- Data Collection
 - Data source
 - Github Job Posting
 - Survey data technologies
 - Training Portals
- Data Wrangling
- Exploratory Data Analysis
- Data Visualization
- Dashboard

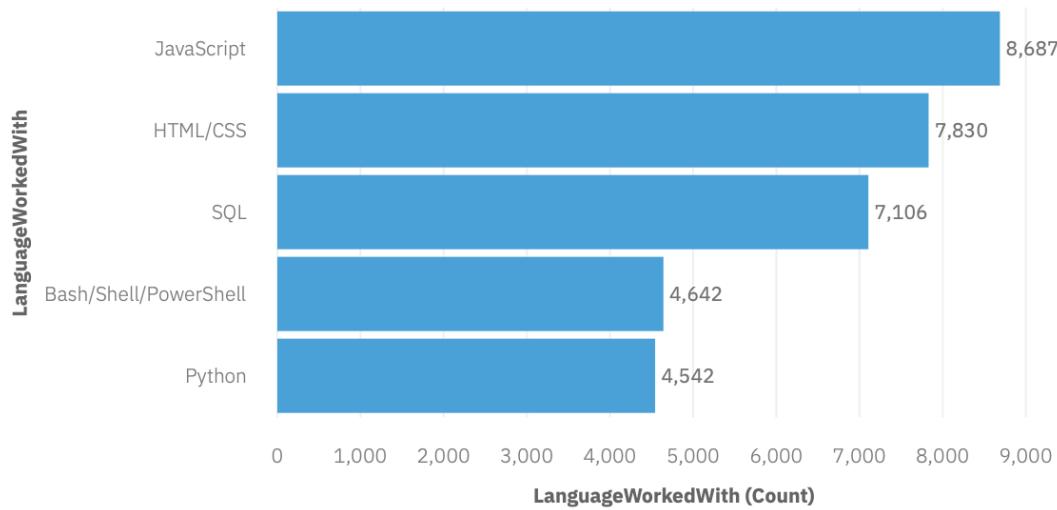
RESULTS –Future Technology Trend



PROGRAMMING LANGUAGE TRENDS

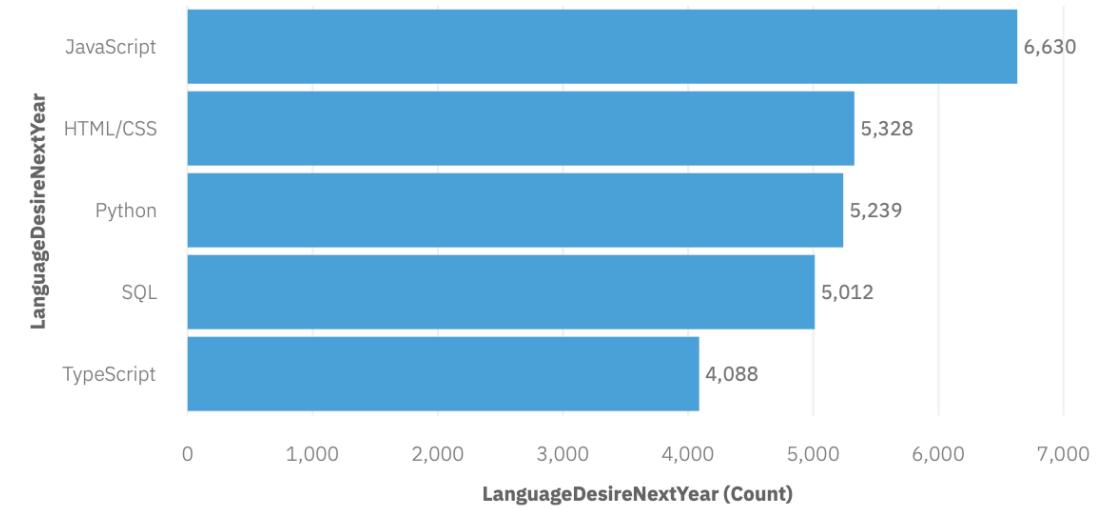
Current Year

Top 5 Language worked with



Next Year

Top 5 LanguageDesireNextYear



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Java Script will be on top trend language
- Python and Type Script will be more important
- The Prospect of Bash/Shell will decrease

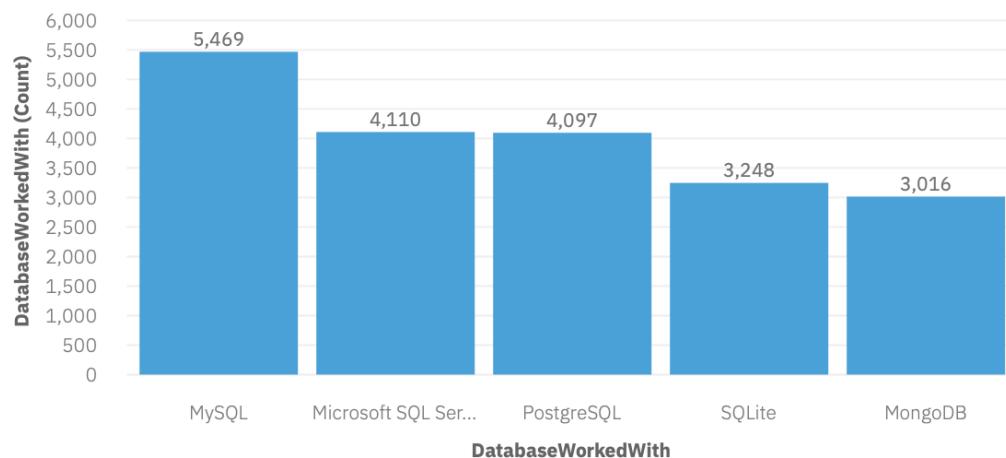
Implications

- Need to develop Java Script/HTML,CSS skill
- More requirements of Python & Type Script than Bash/Shell

DATABASE TRENDS

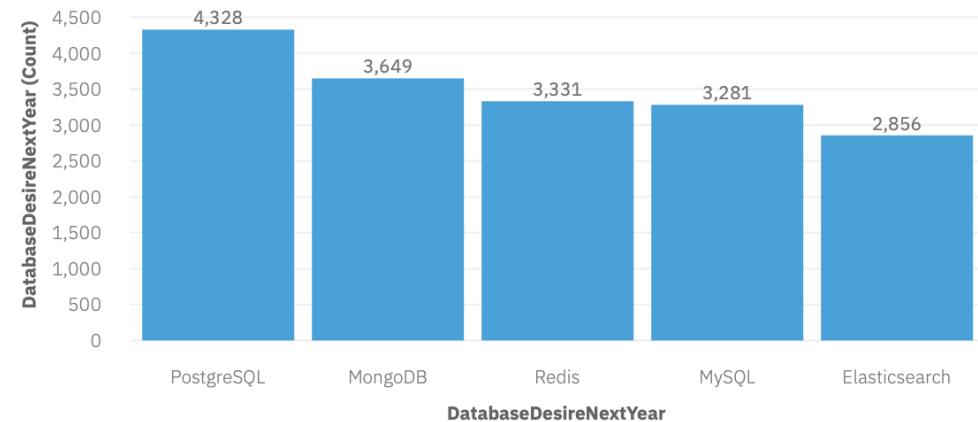
Current Year

Top 5 Database worked with



Next Year

Top 5 Database Desire Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- PostgreSQL will be top trend database
- Redis and Elasticsearch will become new required database
- Use of Microsoft SQL Server and SQLite will decrease

Implications

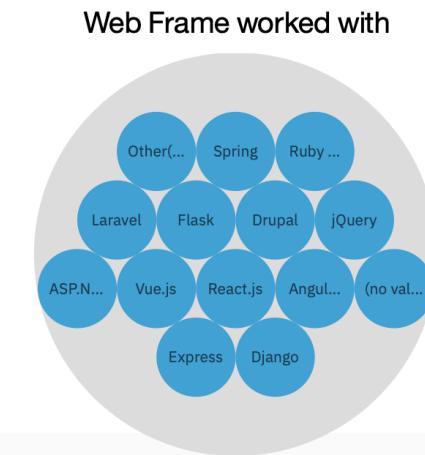
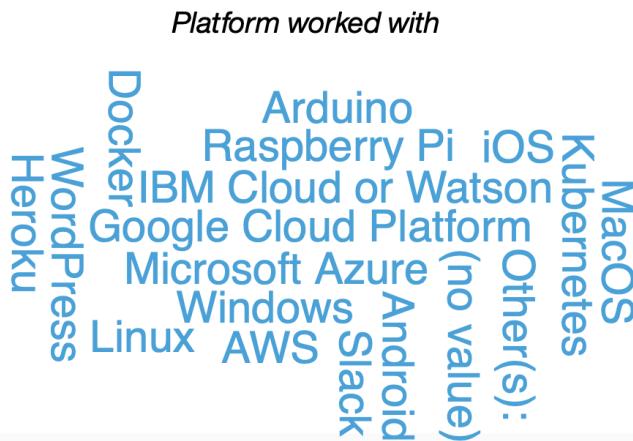
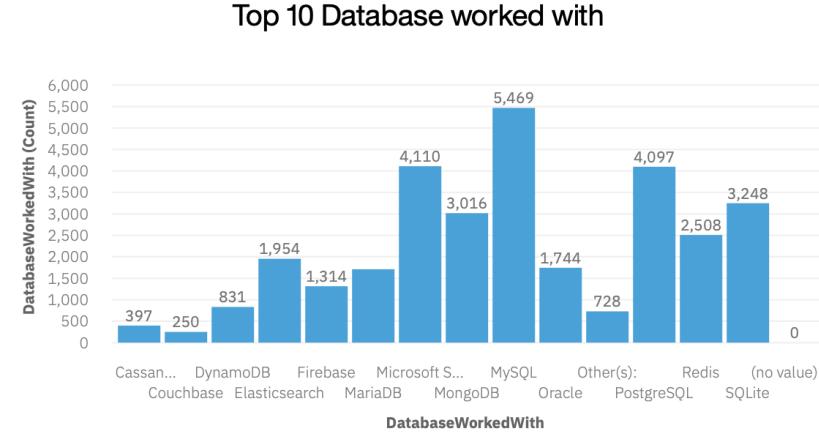
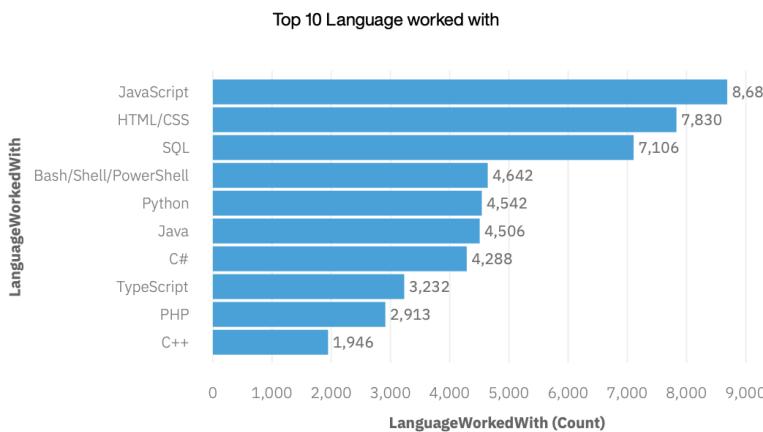
- Need to know manage PostgreSQL, MongoDB
- Recommended learning New Required database instead of Microsoft SQL, SQLite

DASHBOARD



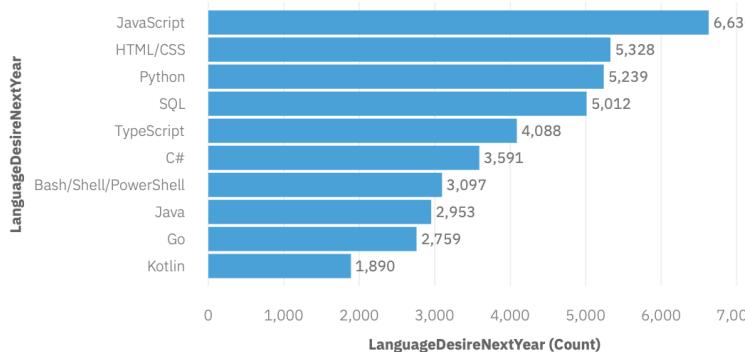
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Current Technology Usage

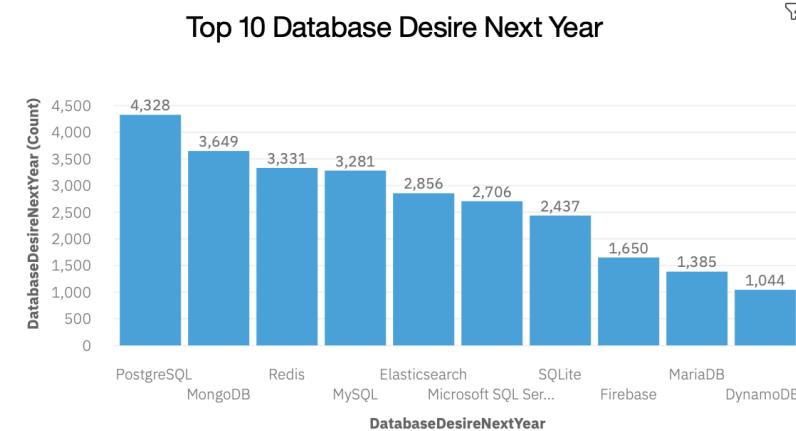


Future Technology Trend

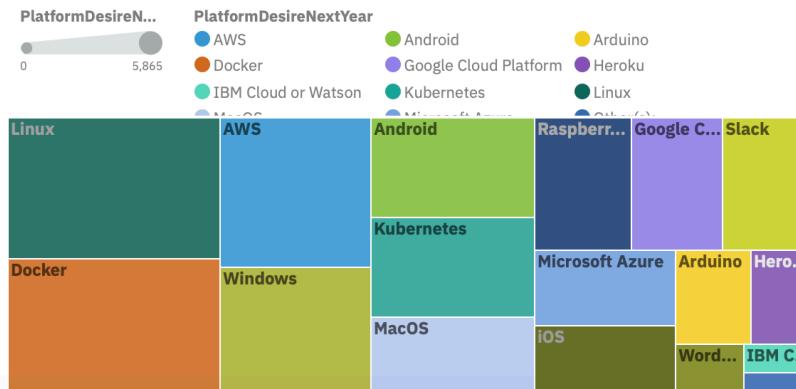
Top 10 Language Desire Next Year



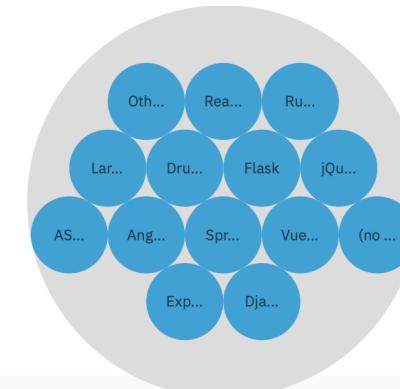
Top 10 Database Desire Next Year



Platform Desire Next Year



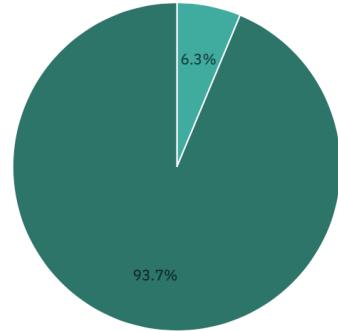
Top 10 Web Frame Desire Next Year



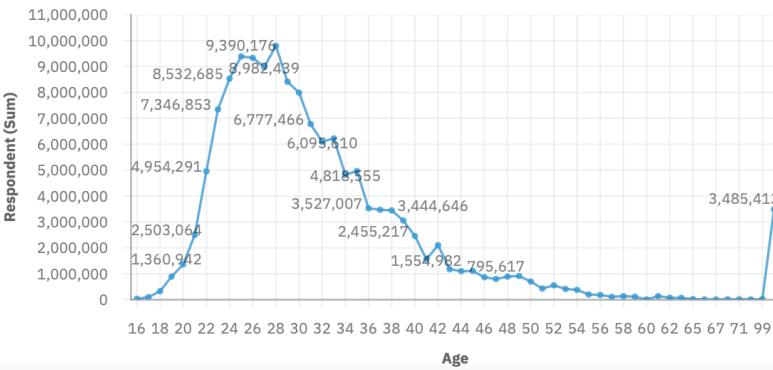
Demographics

Respondent by gender

Gender
● Woman ● Man

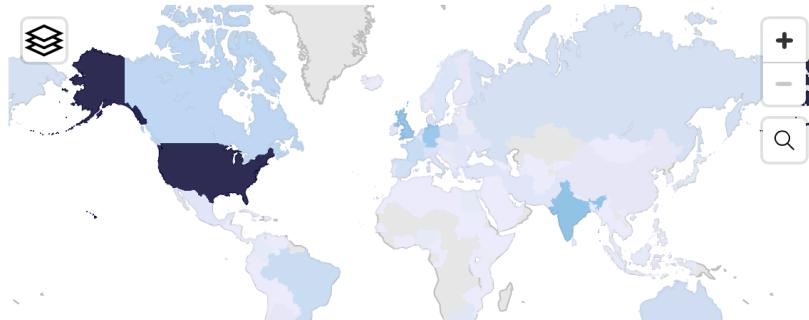


Respondent by Age



Respondent by Country

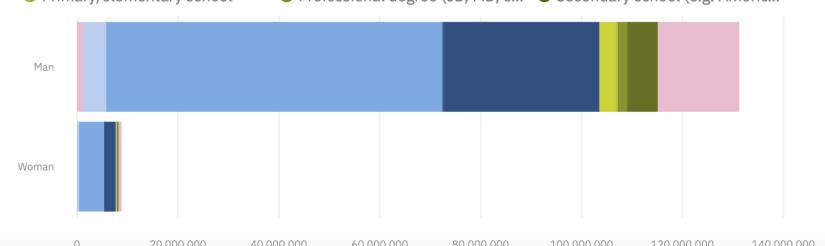
Respondent (Sum)
865 39,154,240



Respondent Count by Gender, classified by Formal Education Level

EdLevel

(no value) Associate degree Bachelor's degree (BA, BS, B.E...
I never completed any formal ... Master's degree (MA, MS, M.E... Other doctoral degree (Ph.D, E...
Primary/elementary school Professional degree (JD, MD, e... Secondary school (e.g. Americ...



DISCUSSION



- Actual and future Technology trend
- Gender, Age, Country and Education distribution of respondents

OVERALL FINDINGS & IMPLICATIONS

Findings

- Trend of changing Programming languages, Database, Platform, Web frame
- Dramatic variation of demographic factors in technological profession

Implications

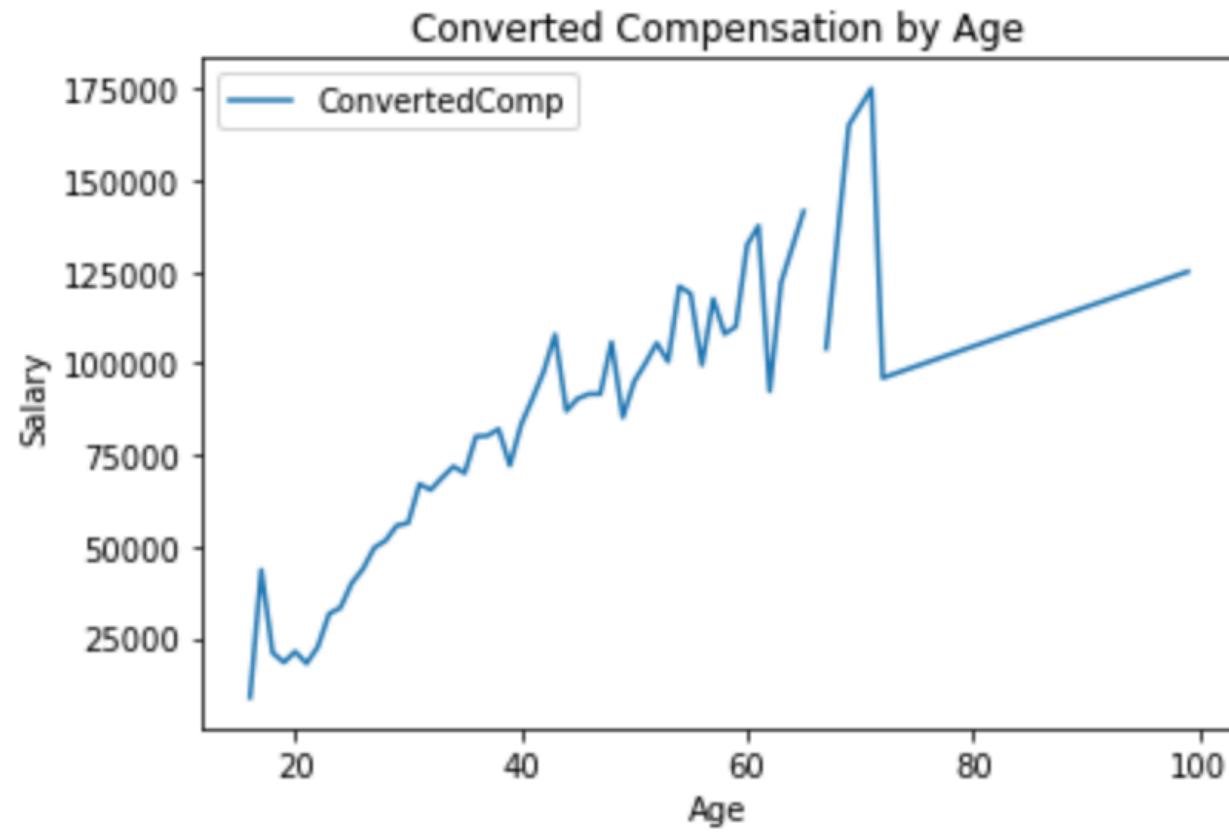
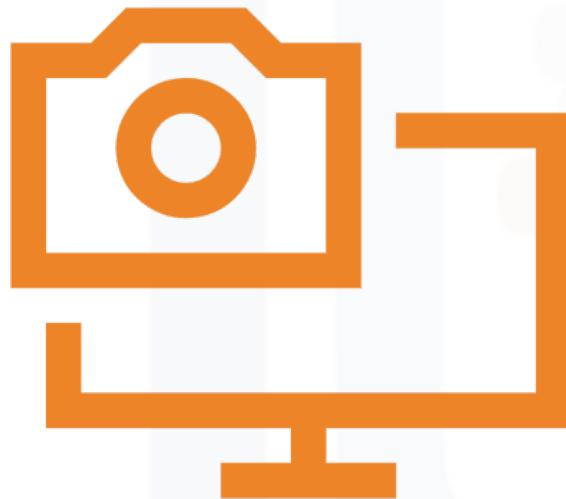
- Develop oneself to keep up with industry trends
- Need to improve the company environment that can enter a diverse population

CONCLUSION

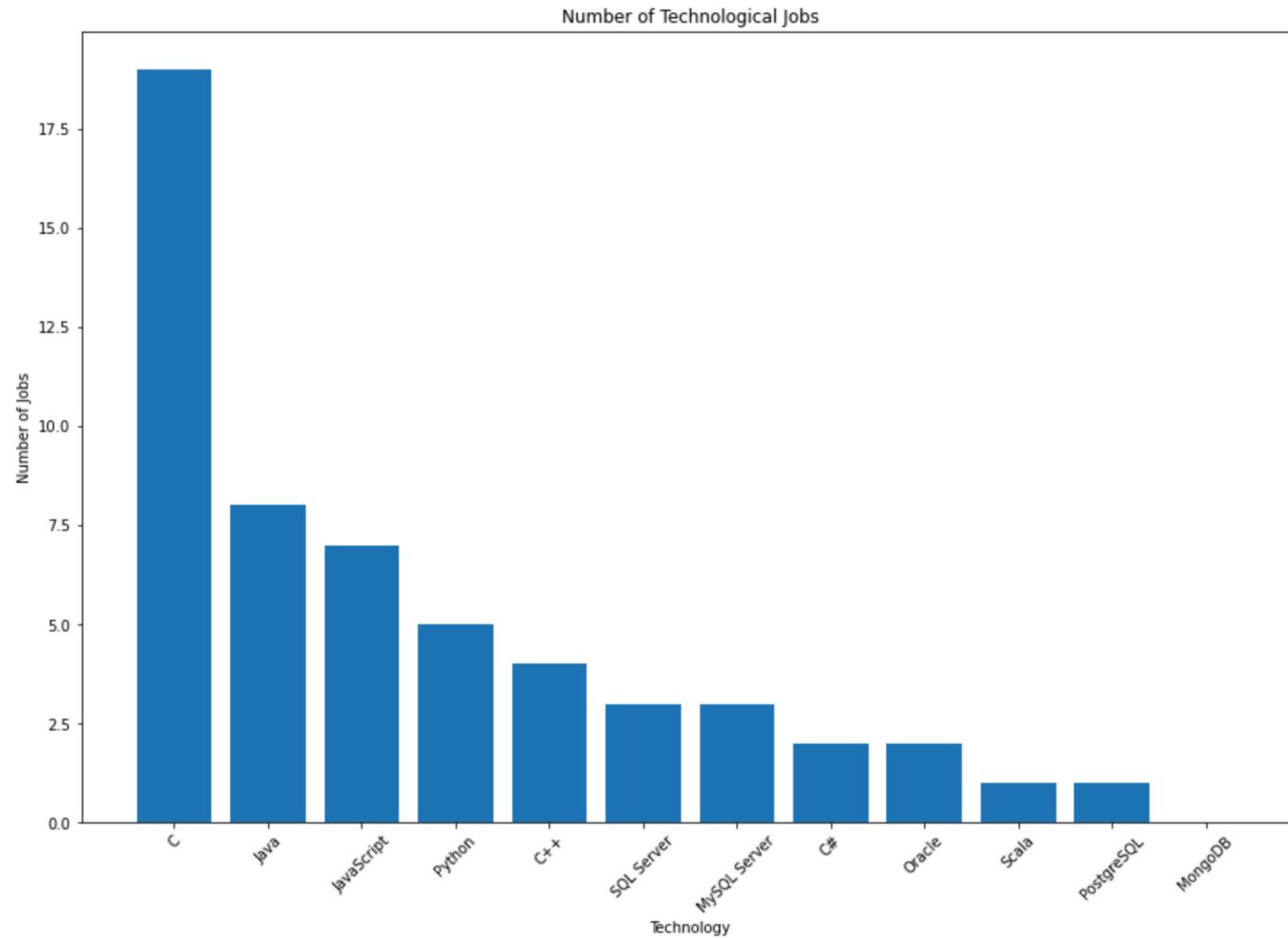


- Comparison of actual and future technology trend to react change of industry requirements
- Distribution of demographics factors

APPENDIX



GITHUB JOB POSTINGS



POPULAR LANGUAGES

