



Trending skills in IT industry

Aug 2024

OUTLINE



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

EXECUTIVE SUMMARY



- The IT industry is highly competitive evolving, requiring continuous refinement of programming skills and database knowledge.
- This project aims to analyze industry trends, focusing on current technology usage, future technology trends, and demographic insights within the IT sector.
- The primary goals are to identify the most in-demand programming languages, top database skills, and popular Integrated Development Environments (IDEs) that are shaping the industry.

INTRODUCTION



Trends and Future Skill Requirements in the Industry:

- Top Programming Languages: Identifying the most in-demand languages.
- Top Database Skills: Highlighting the essential database skills.
- Popular IDEs: Listing the most widely used Integrated Development Environments.

Data Collection:

- Gathering data from job postings,
- Training portals
- Surveys to identify trends for this year's report on emerging skills

METHODOLOGY



Data Sources: Utilized data from Stack Overflow.

Survey Data Technologies: Analyzed current and future technology trends using:

- Respondents' data
- Technologies worked with (Web Frameworks, Databases, Platforms, Languages)
- Technologies desired for the next year

Demographic Data: Included details on:

- Gender (men and women)
- Age
- Education levels and countries

Data Filtering:

- Cleaned data by removing null values
- focusing on men and women only.

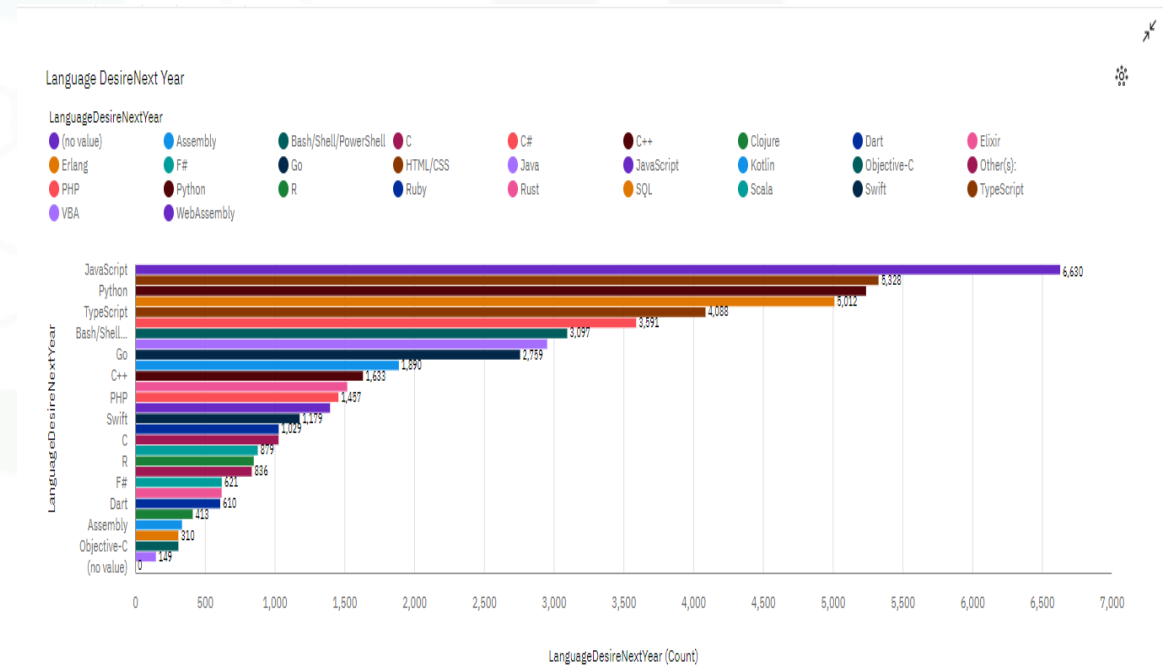
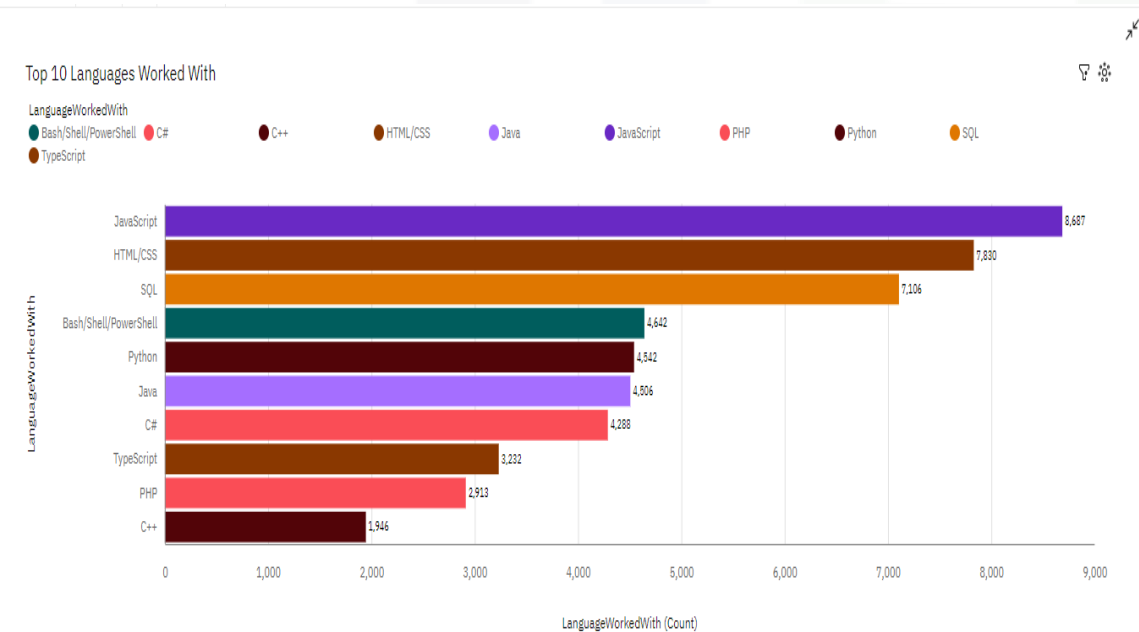
RESULTS



PROGRAMMING LANGUAGE TRENDS

Current Year

Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- JavaScript remains the most in-demand programming language for both current and future needs.
- There is a significant increase in the desire for Python.
- The trends in programming languages have shifted.

Implications

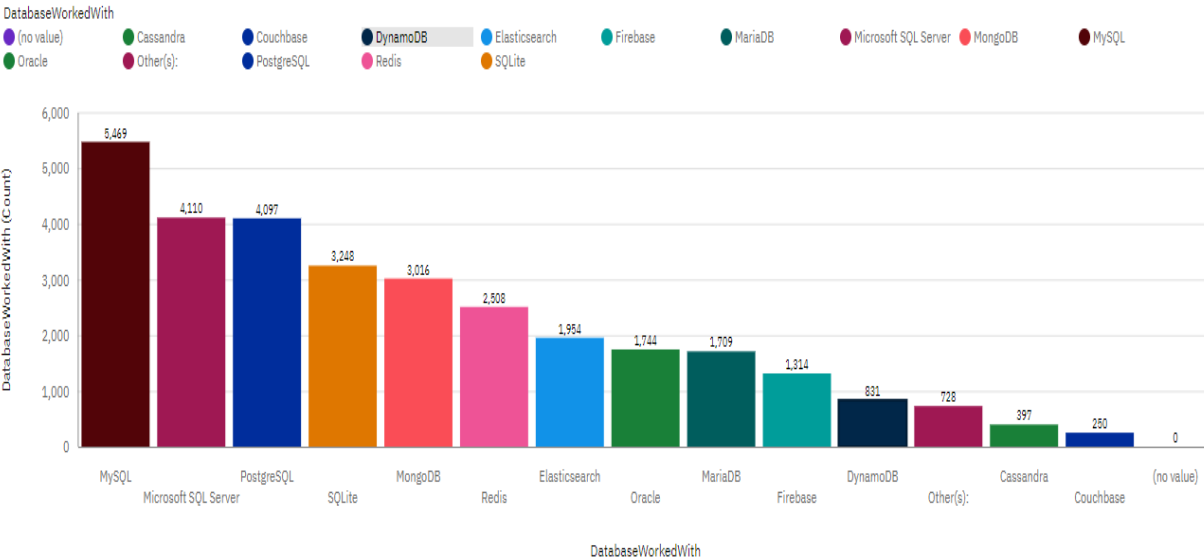
- JavaScript continues to be the most popular and widely used language in the industry.
- Python has emerged as a highly desired skill in the IT sector.
- The top 5 most desired skills are JavaScript, Python, HTML/CSS, SQL, and TypeScript.

DATABASE TRENDS

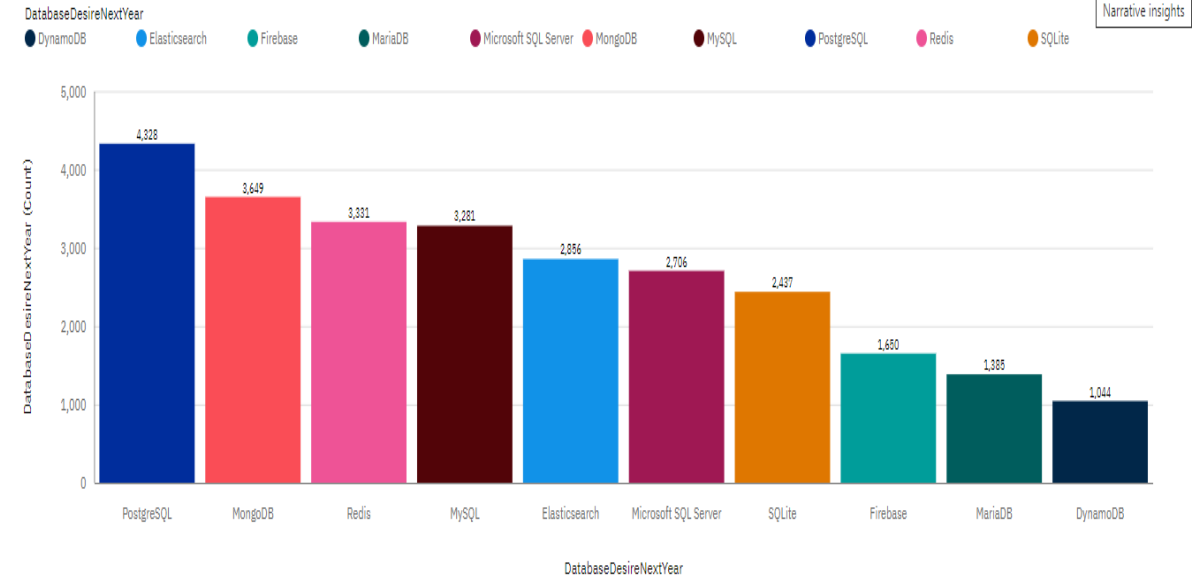
Current Year

Next Year

Top 10 DatabaseWorkedWith



Top 10 Databases Desired Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- MySQL is now the most desired databases.
- Oracle Database is becoming less popular and less desired.

Implications

- PostgreSQL, MongoDB, Redis, MySQL, and Elasticsearch are the most used databases.
- MongoDB, Redis, and Elasticsearch offer new and improved functionalities or services.
- Oracle Database is recommended to be avoided.

DASHBOARD

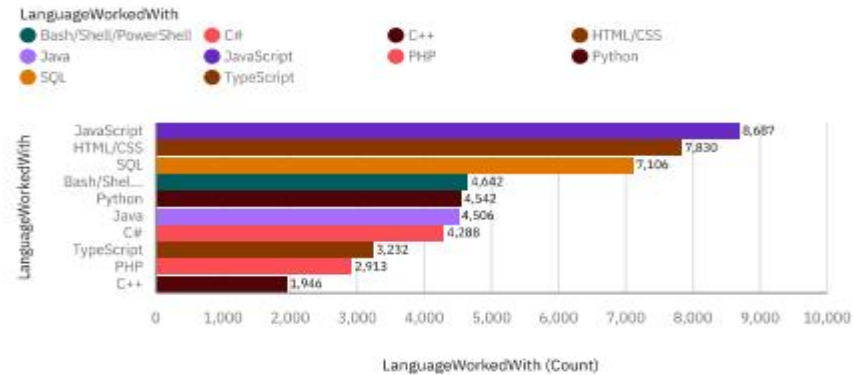


<https://github.com/EllaZade58/Dashboards-Cognos>

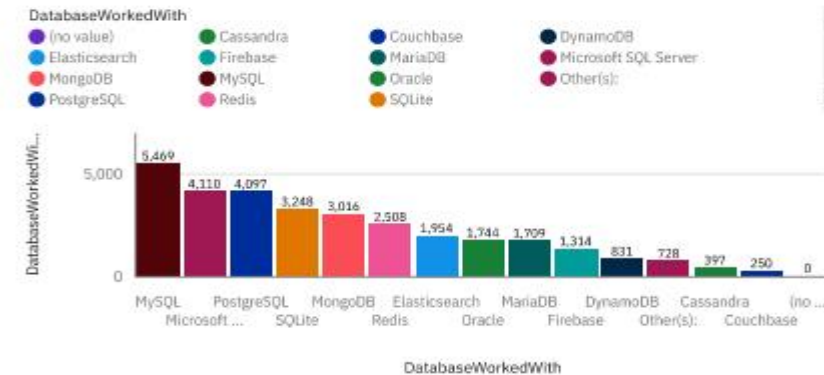
DASHBOARD TAB 1

Current Technology Usage

Top 10 Languages Worked With



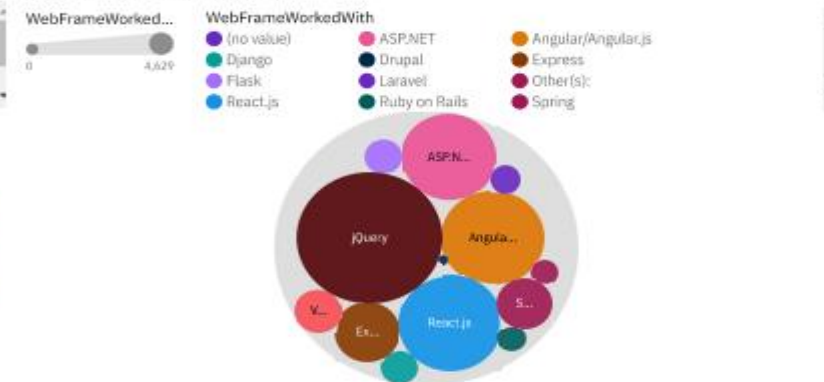
Top 10 DatabaseWorkedWith



Platforms Worked With



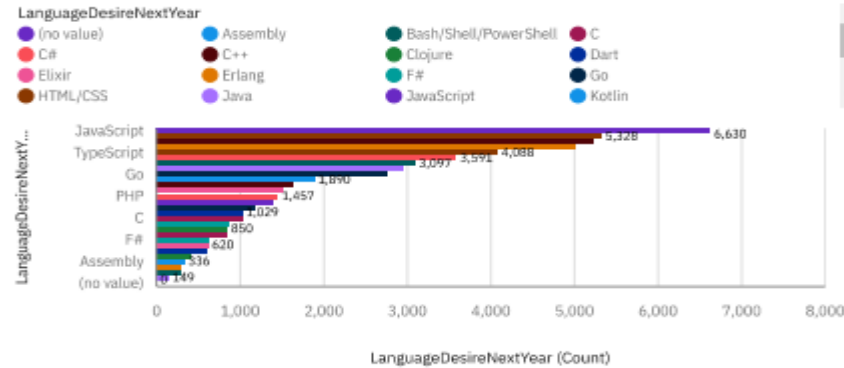
Top 10 Web Frameworks Worked With



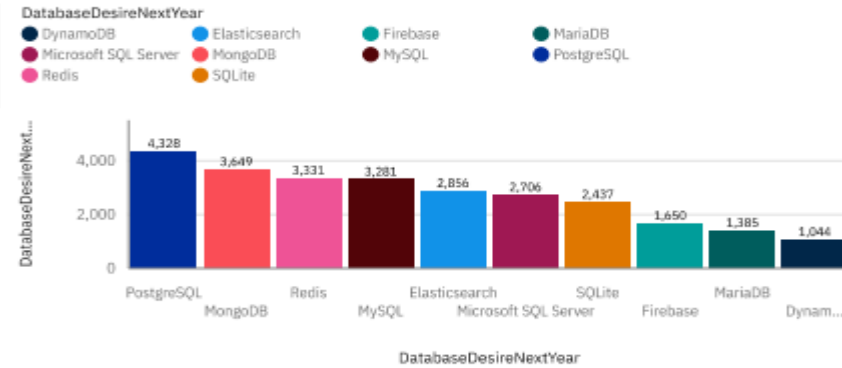
DASHBOARD TAB 2

Future Technology Trend

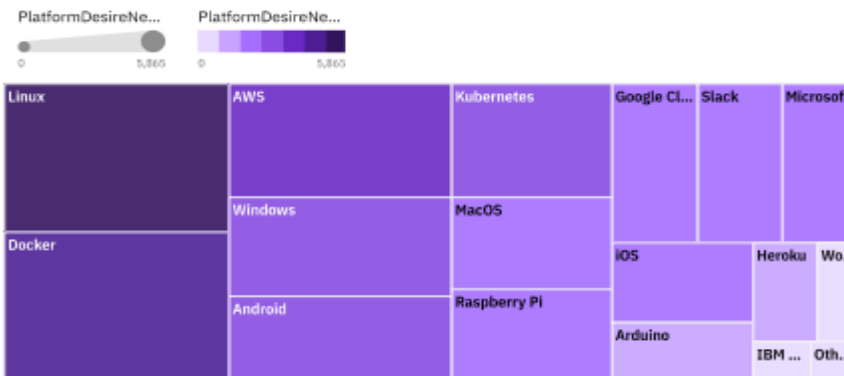
Language DesireNext Year



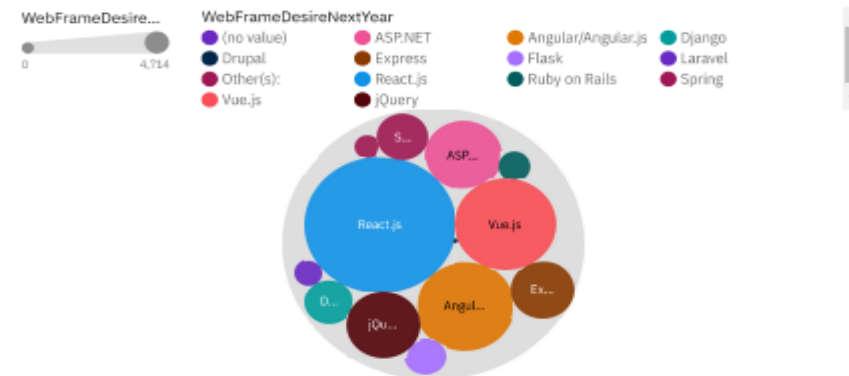
Top 10 Databases Desired Next Year



Platforms Desired Next Year



Top 10 Web Frameworks Desired Next Year



DASHBOARD TAB 3

Demographics

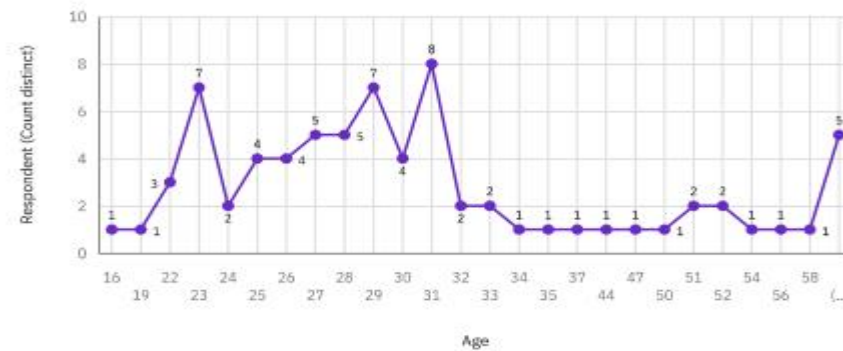
Respondent classified by Gender



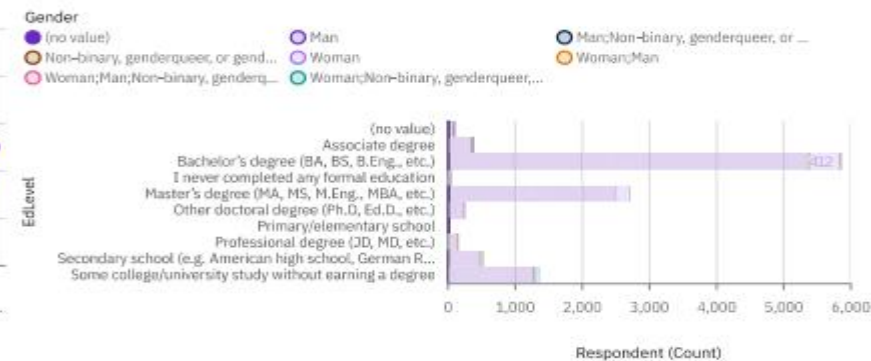
Respondent Count for Countries



Respondent Count by Age



Respondent Count by Gender, classified by Formal Education Level



DISCUSSION



- Top Programming Languages: JavaScript, Python, HTML/CSS, SQL, and TypeScript are gaining popularity in the IT industry.
- Popular Database Skills: PostgreSQL, MongoDB, Redis, MySQL, and Elasticsearch
- Popular IDEs: React.js, Angular/Angular.js, Vue.js, jQuery, and ASP.NET are the preferred integrated development environments.

OVERALL FINDINGS & IMPLICATIONS

Findings

- Programming Languages: JavaScript, Python, HTML/CSS, SQL, and TypeScript are highly desired.
- Databases: PostgreSQL, MongoDB, Redis, MySQL, and Elasticsearch are the most sought-after.
- IDEs: React.js, Angular/Angular.js, Vue.js, jQuery, and ASP.NET are popular.

Implications

Future Skills Requirements:

- Programming Languages: Emphasis on learning JavaScript, Python, HTML/CSS, SQL, and TypeScript.
- Databases: Focus on PostgreSQL, MongoDB, Redis, MySQL, and Elasticsearch.
- IDEs: Proficiency in React.js, Angular/Angular.js, Vue.js, jQuery, and ASP.NET.

CONCLUSION



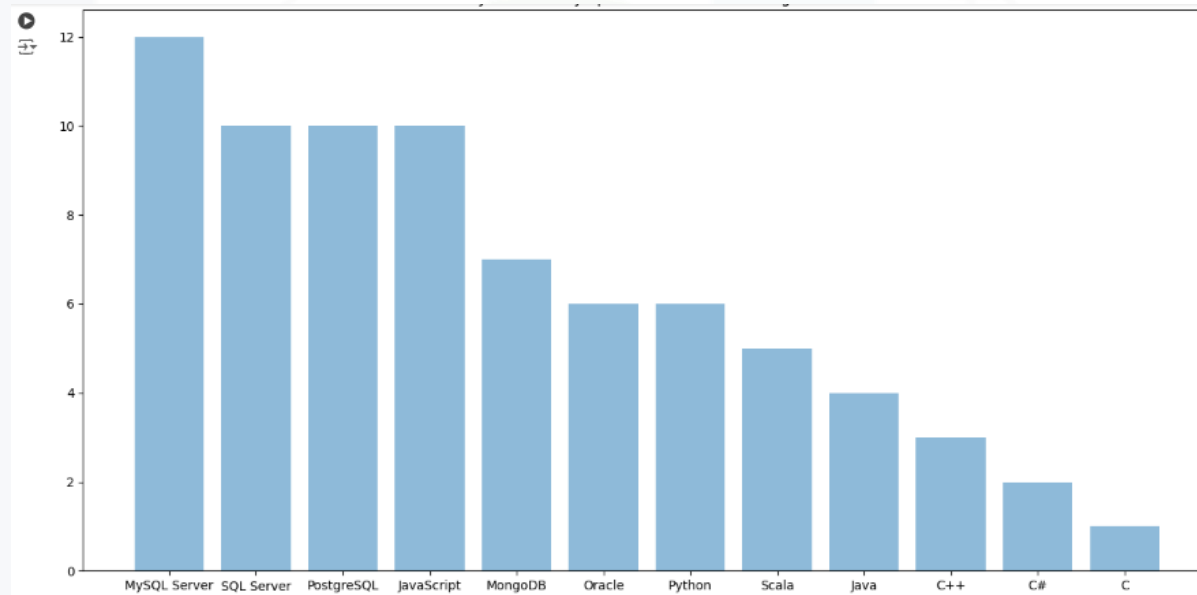
- Open Source Data: Data from StackFlow can be analyzed to avoid bias.
- Technology Trends: There is a shift in trends, requiring changes in skills.
- Skills Requirements: Emphasis on programming languages (JavaScript, Python, HTML/CSS, SQL, TypeScript), databases (PostgreSQL, MongoDB, Redis, MySQL, Elasticsearch), and IDEs (React.js, Angular/Angular.js, Vue.js, jQuery, ASP.NET).

APPENDIX



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

JOB POSTINGS



POPULAR LANGUAGES

