

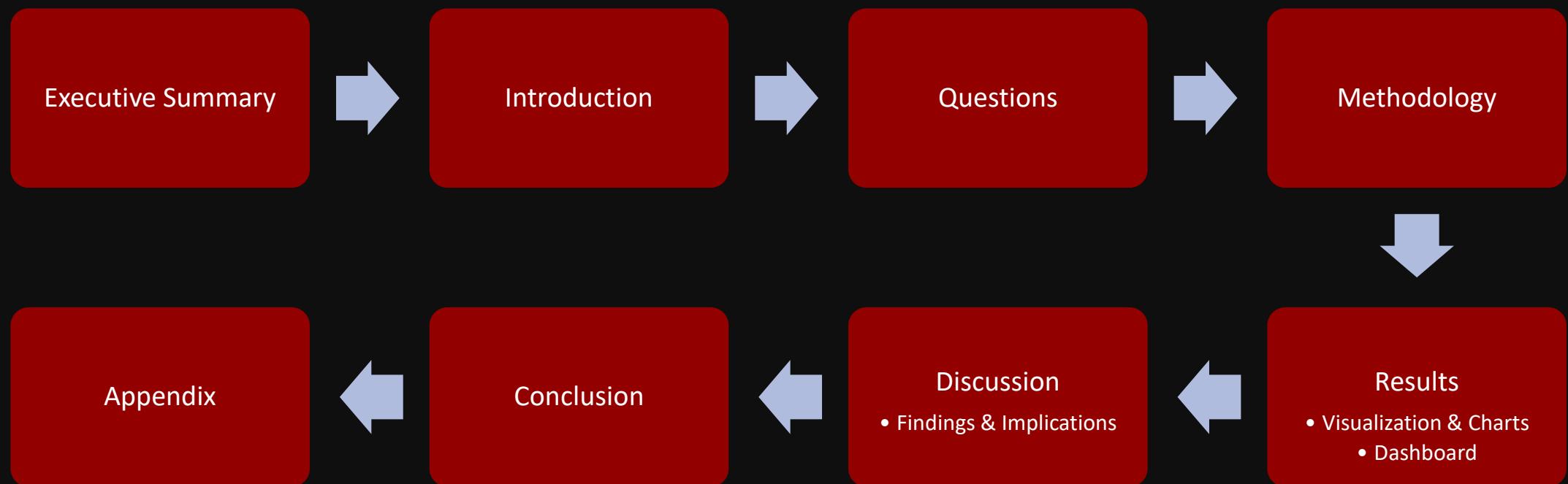
Trends in the IT Industry

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Outline



Executive Summary

Industry Shift: AI and new tech are reshaping IT rapidly.

Prepare for NoSQL and AI-driven tools.

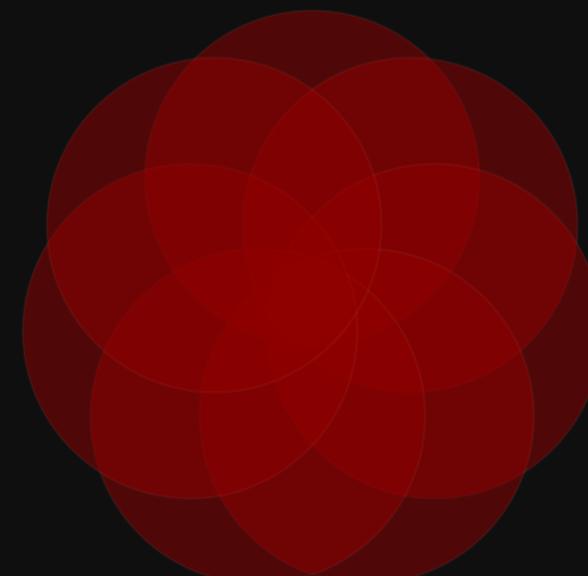
Invest in skills for SQL, JavaScript, TypeScript, Rust, Go, PostgreSQL, Redis.

Balance hiring vs. retraining staff.

Programming Languages: JavaScript still leads, but TypeScript, Rust, and Go are rising.

Databases: PostgreSQL dominates; Redis growing; NoSQL adoption expected to increase.

Developers: Mostly 25–45 years old, well-educated, and open to learning new skills.



Introduction

The rapidly evolving tech landscape is a challenge for IT companies and for us we need to stay ahead in this. This is even more evident with the recent advancements in AI, the future of IT companies is more unstable than before.

With these changes it's only fair that we need to evolve. So, we need to understand what is happening and will happen with the developers around the globe.

Questions

Which programming languages are most in demand?

Which database technologies are currently most sought after?

Methodology

Data collection

Web Scraping
Secondary Research
(2024 Stack overflow developer survey)

Method on collecting data

APIs

Data Wrangling

Removing duplicates and removing null values

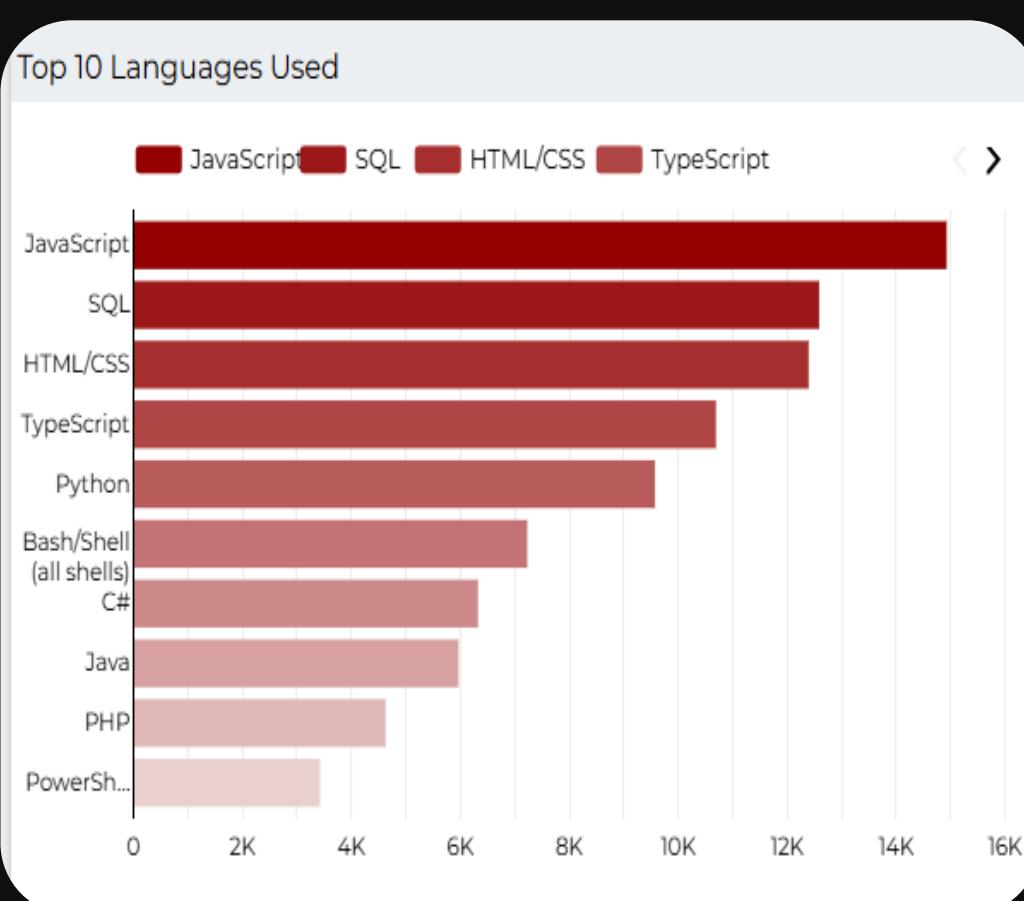
Data Analysis and Visualization

Correlation
Charts and Dashboards

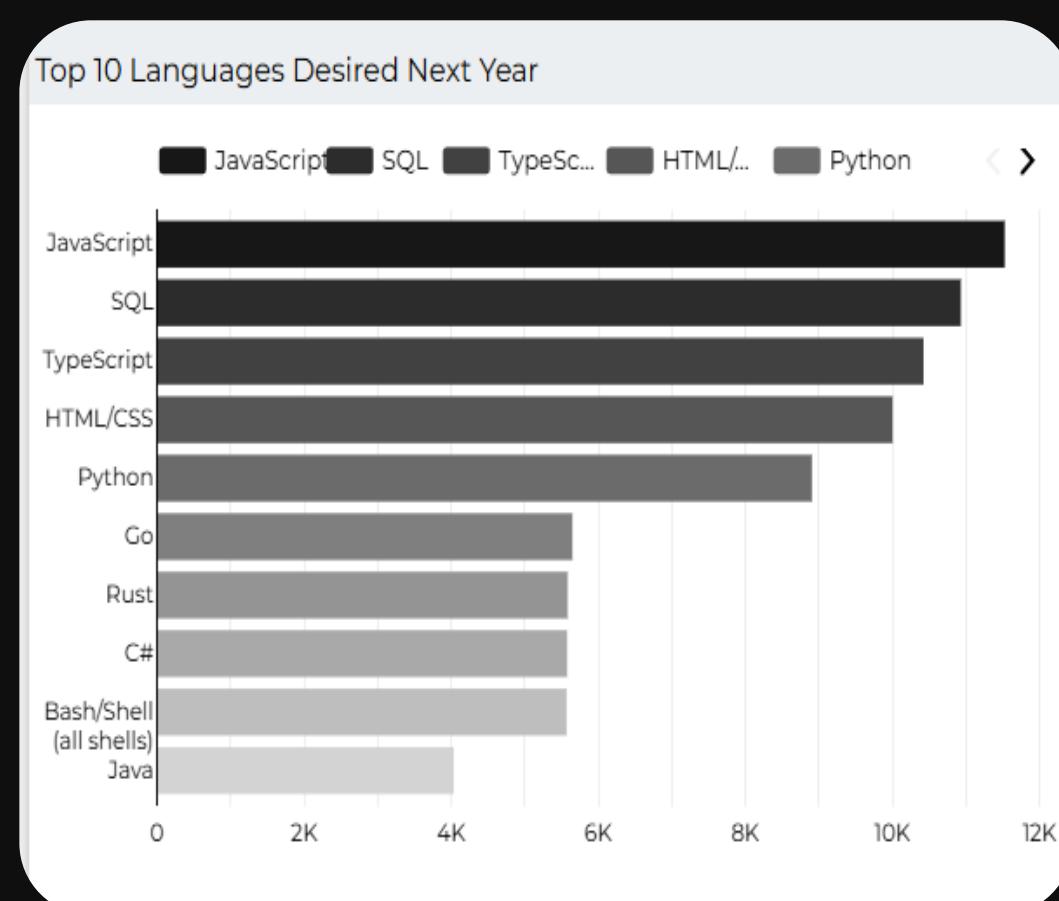
Results

Programming Language Trends

Current Year



Next Year



Programming Language Trends – Findings & Implications

Findings

JavaScript is dominating.

Bash is losing relevance.

JavaScript is slowly declining.

TypeScript is getting traction.

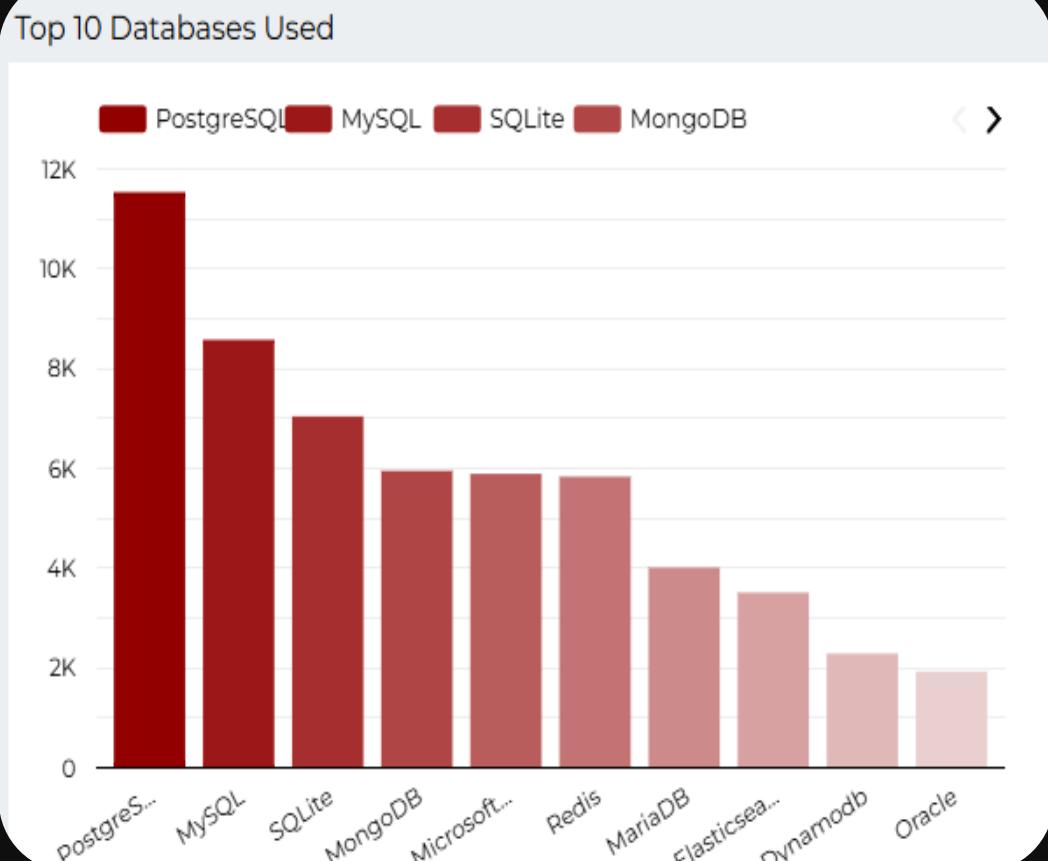
SQL is consistently strong.

Newer programming languages such as rust and go is getting popular.

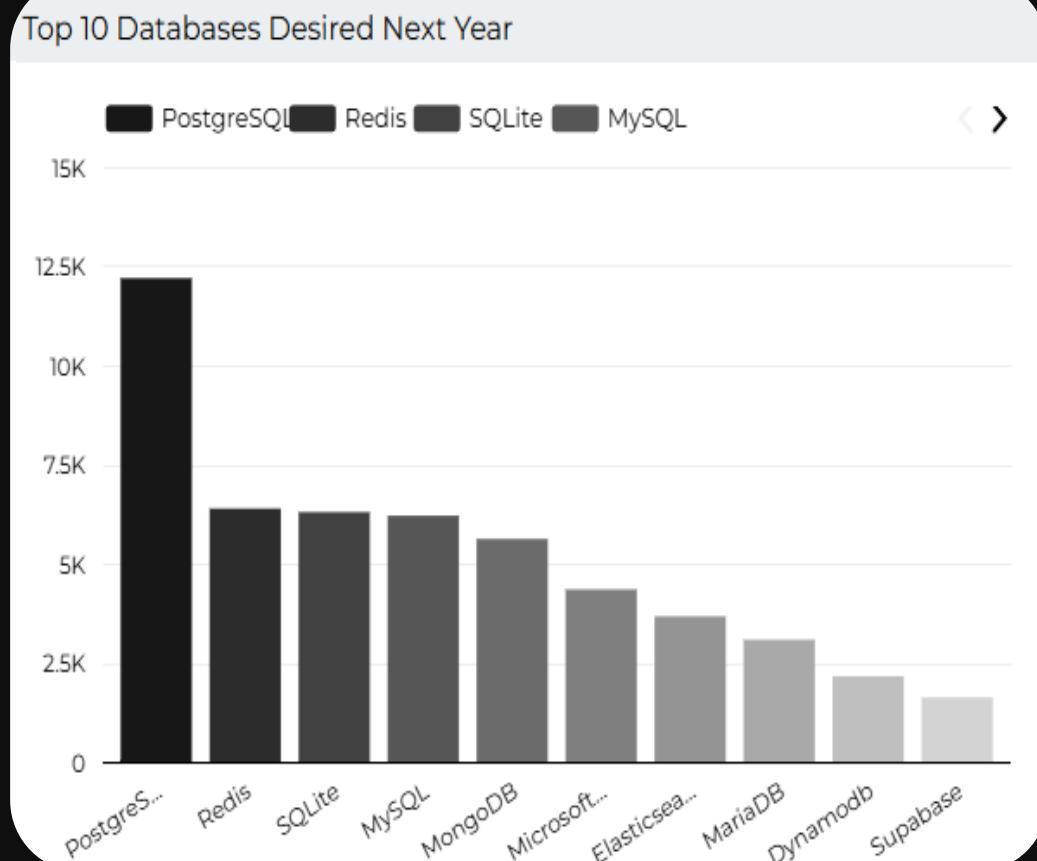
Implications

Database Trends

Current Year



Next Year



Database Trends – Findings & Implications

PostgreSQL is the most popular RDBMS.

Redis is getting more popular.

Relational databases are dominate now.

Non-relational databases is expected to rise.

Findings

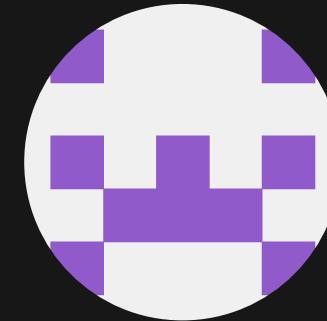
Implication

Dashboard

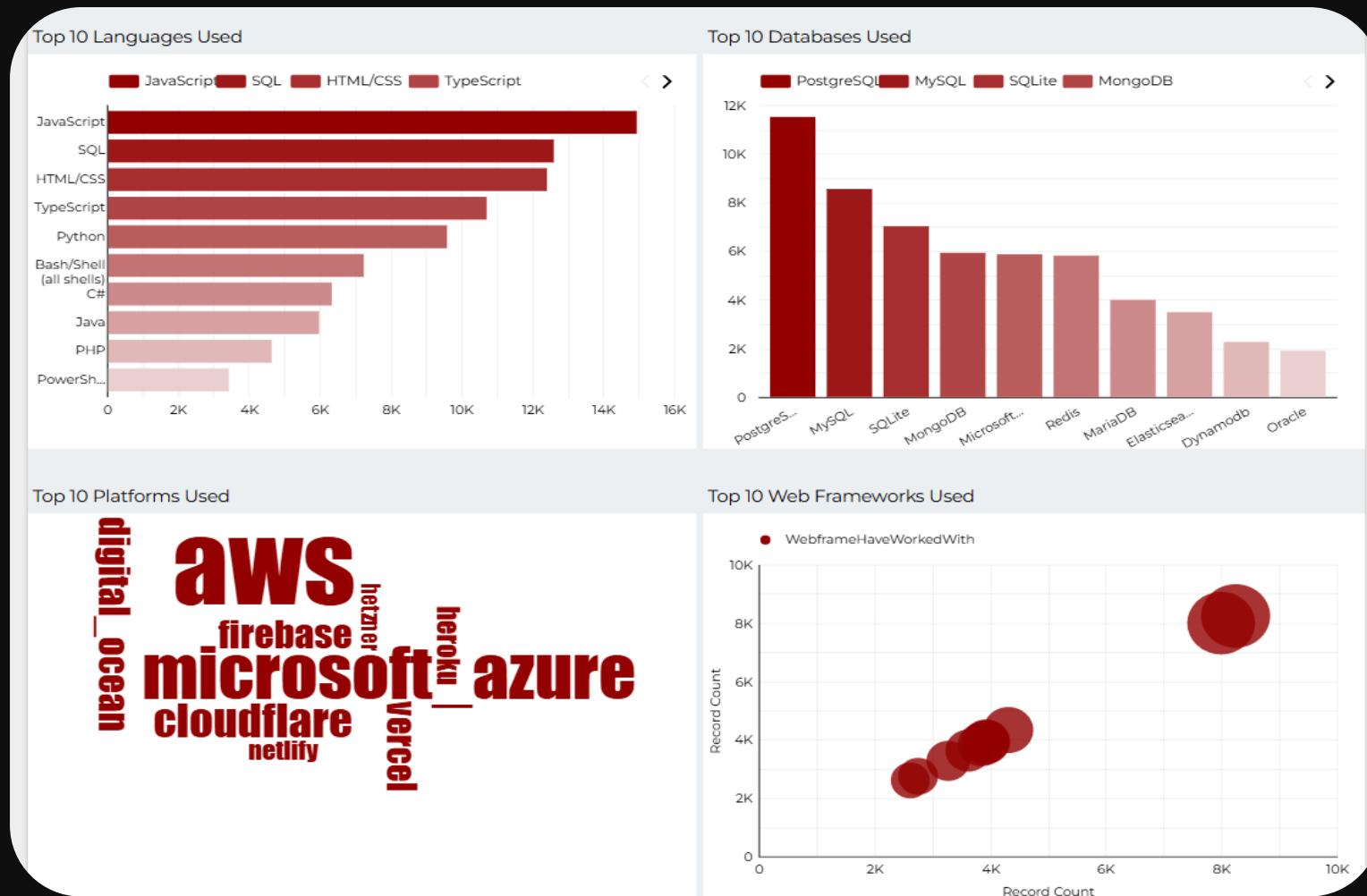


Visit my GitHub profile to get the full dashboard I have made for this presentation.

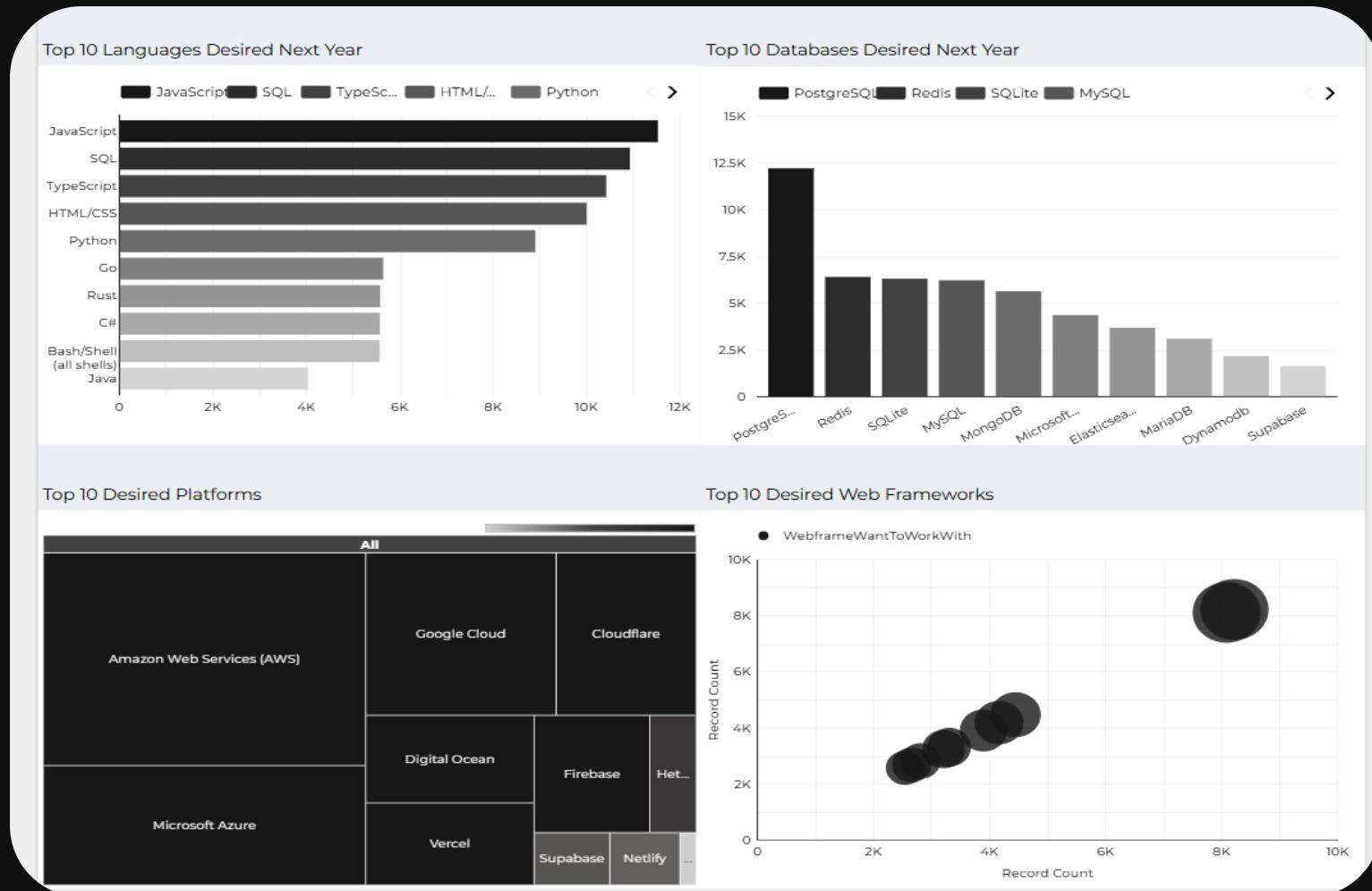
<https://github.com/roopamdas04/Python-for-data-analysis/tree/main/IBM%20Capstone%20project>



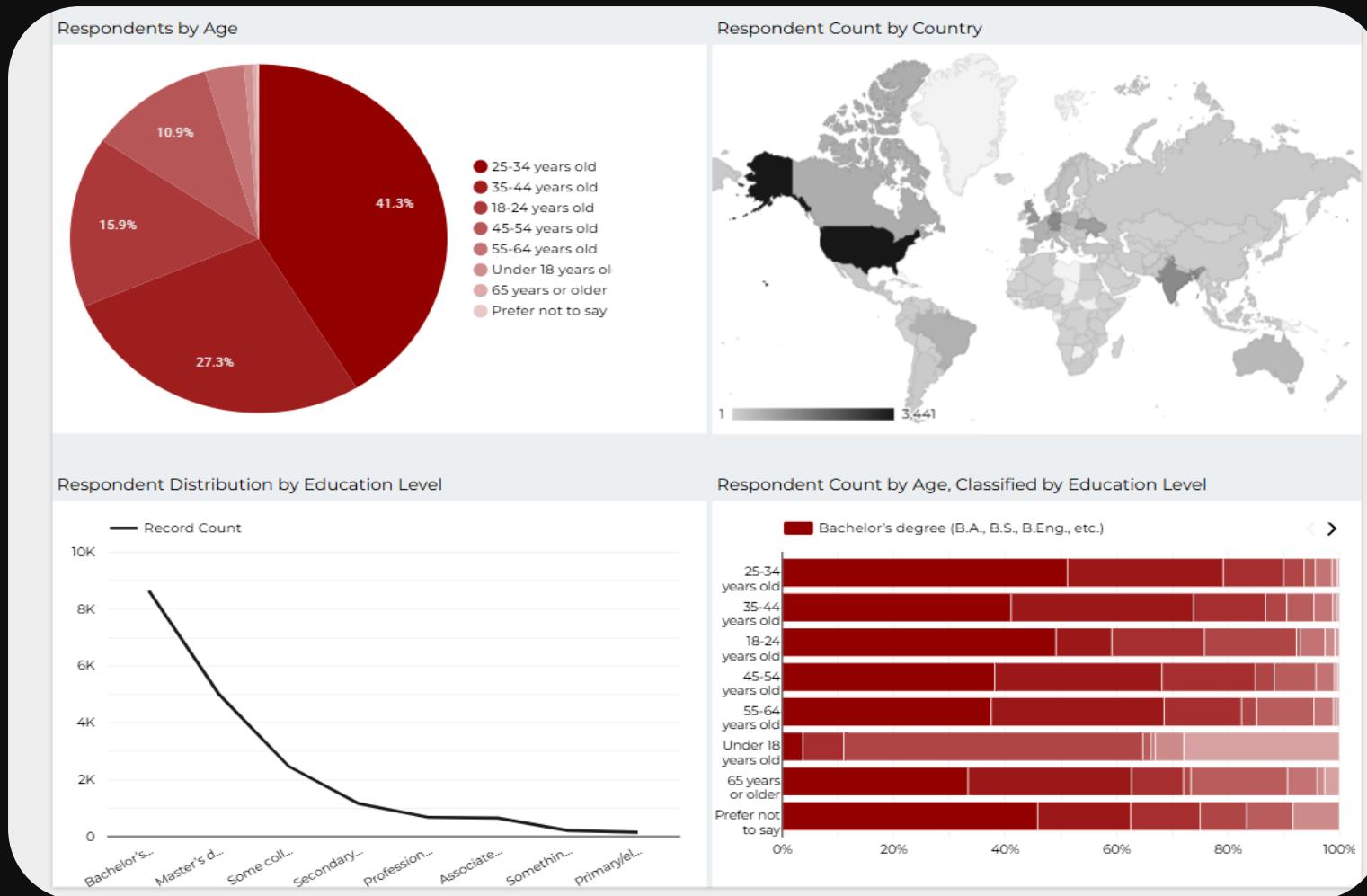
Dashboard Tab 1 – Current Technology uses



Dashboard Tab 2 – Future technology uses



Dashboard Tab 3 - Demographics



Discussion

Overall Findings & Implication

Findings

- JavaScript will remain the main choice for coding languages, but it is facing tough competition.
- Postgres is the most demanding RDBMS.
- We can see a trend with the increasing adoption of newer(go and rust) coding languages.

Implications

- Developers are adaptable and motivated to upskill.
- Most hold at least a bachelor's degree, with some pursuing higher studies.
- Majority of developers are 25–45 years old in the survey.

Conclusion

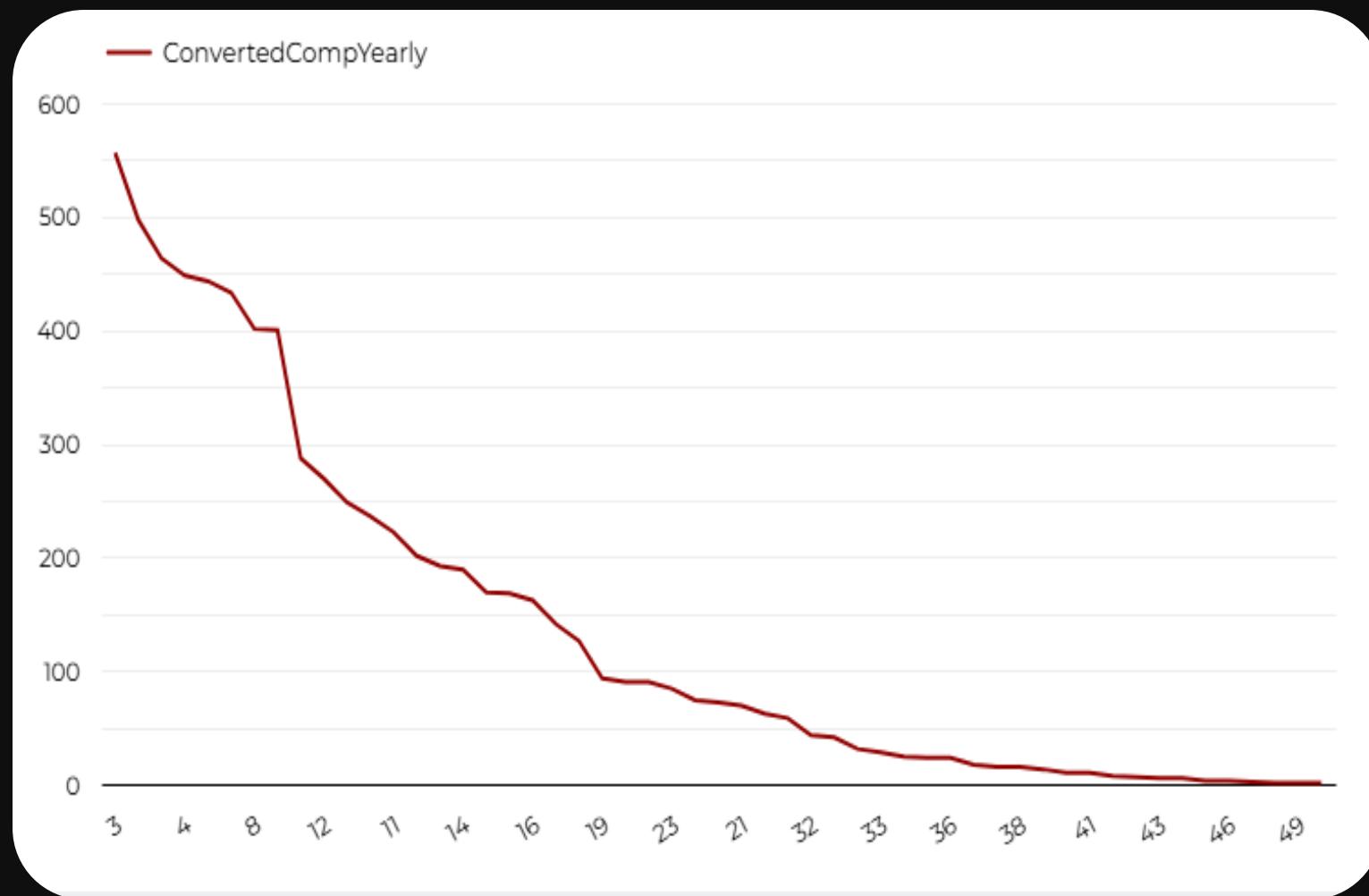
We can say that developers are quite open minded and want to upskill.

Companies must adapt hiring and training strategies to stay competitive in the upcoming years.

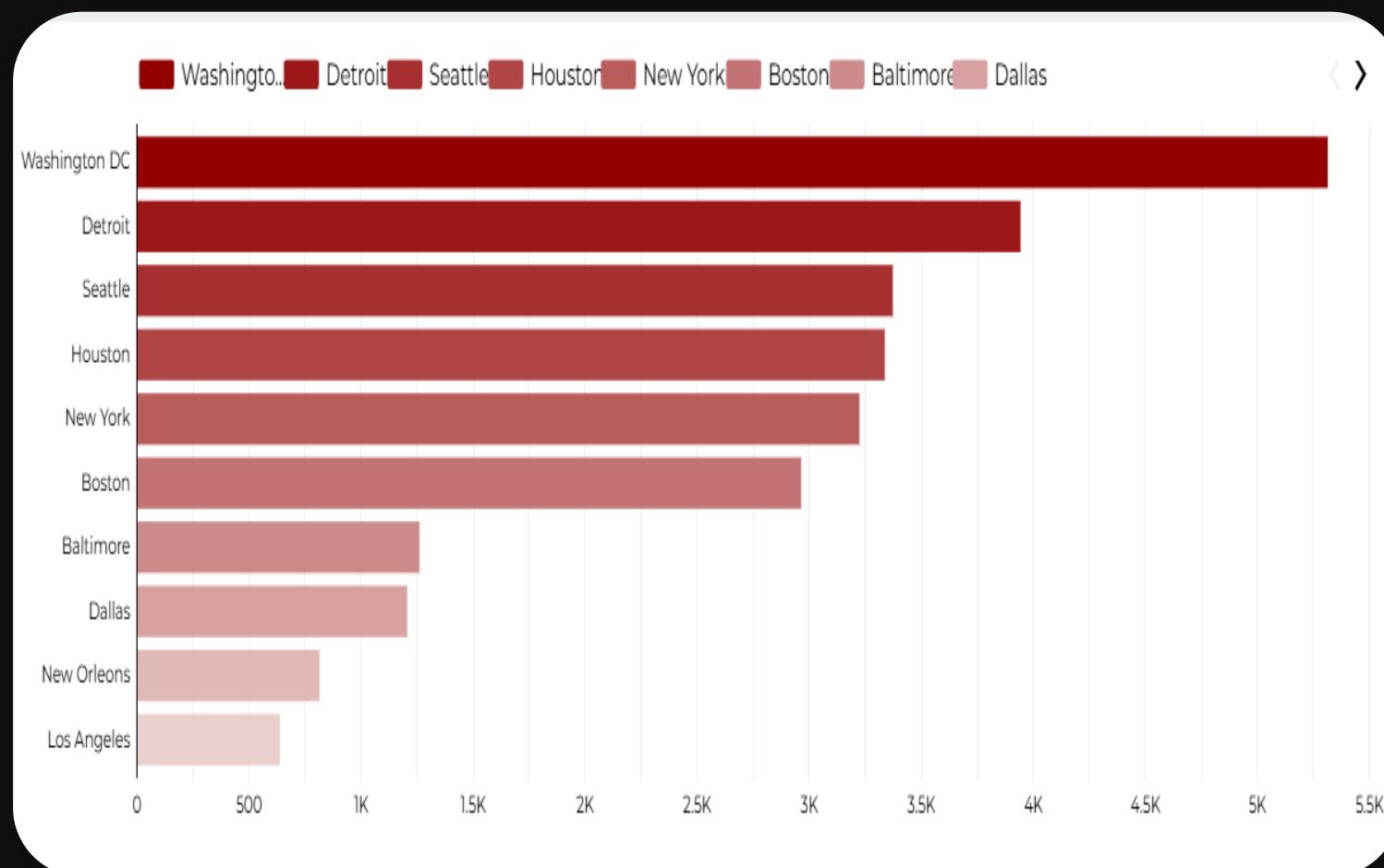
We can analyze the expected new skills & salaries for newer roles.

Appendix

Total annual pay vs Experience



Job Posting



Popular languages

