

An Analysis of current technological trend

Name: Sagnik Bhattacharya

Date: 09.08.2022

OUTLINE



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

EXECUTIVE SUMMARY



- It is data analyze on technology, that is helping to understand usage of technological trends in IT Companies now a day.
- Here, I display three main technologies used by modern IT companies.
 - **Programing Language**
 - Database
 - Web Platform and Web Frame
- It also demonstrates current and future technological trends.
- Here, I also display Demographics Survey.
- The country's base and gender base differences are also there.

INTRODUCTION



- To analyze technological trends in software and web development among developers around the world.
- Purpose of this Analysis
- Identify the top programming languages, database, platform and web frame skills in demand
- Identify skill requirements for future
- Audience for this Presentation

Programmers

IT industry leaders

Students

METHODOLOGY



Data Collection (Sources)

- https://www.kaggle.com/promptcloud/jobs-onnaukricom?
- **GitHub job postings**
- **Programming languages annual salary**

Data Wrangling

Data Exploration

Data Cleaning

Data Visualization

Python matplotlib & IBM Cognos

RESULTS

5	WorkChallenge	
6	LanguageWorkedWith	
7	LanguageDesireNextYear	
8	DatabaseWorkedWith	
9	DatabaseDesireNextYear	
10	PlatformWorkedWith	
11	Platform DesireNextYear	
12	WebFrameWorkedWith	
13	WebFrameDesireNextYear	
14	MiscTechWorkedWith	
15	MiscTechDesireNextYear	

PROGRAMMING LANGUAGE TRENDS



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Java Script is the most popular and trending programming language.
- SQL and HTML are also in trend.
- Python is becoming more popular day by day.

Implications

- Every software developer should be familiar with Java script.
- Due to easy learnt, python becoming popular day by day.
- In AI field python is popular programming language.



DATABASE TRENDS



DATABASE TRENDS - FINDINGS & **IMPLICATIONS**

Findings

- MYSQL is most popular DBMS now a day. It is used by majority IT Company. MYSQL is free and easy to access.
- There are still a lot of companies using Microsoft SQL Server
- MongoDB is the most favorable NoSQL database.

Implications

- NoSQL databases will make an impact for relational databases.
- Software development and Big Data technology still requires SQL.
- Open-source databases like MySQL and PostgreSQL still preferable

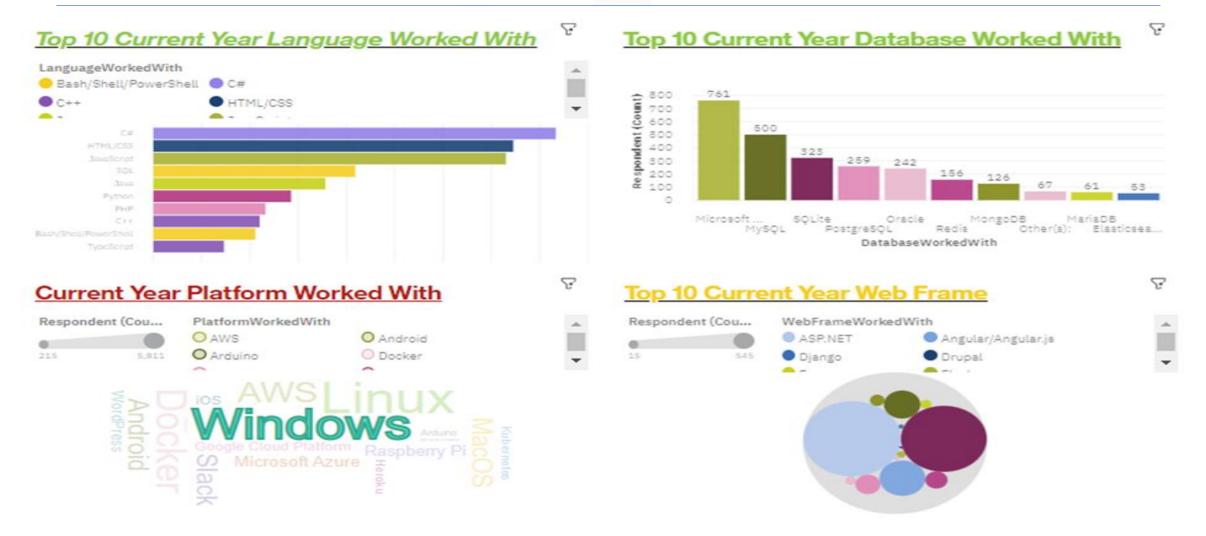
DASHBOARD



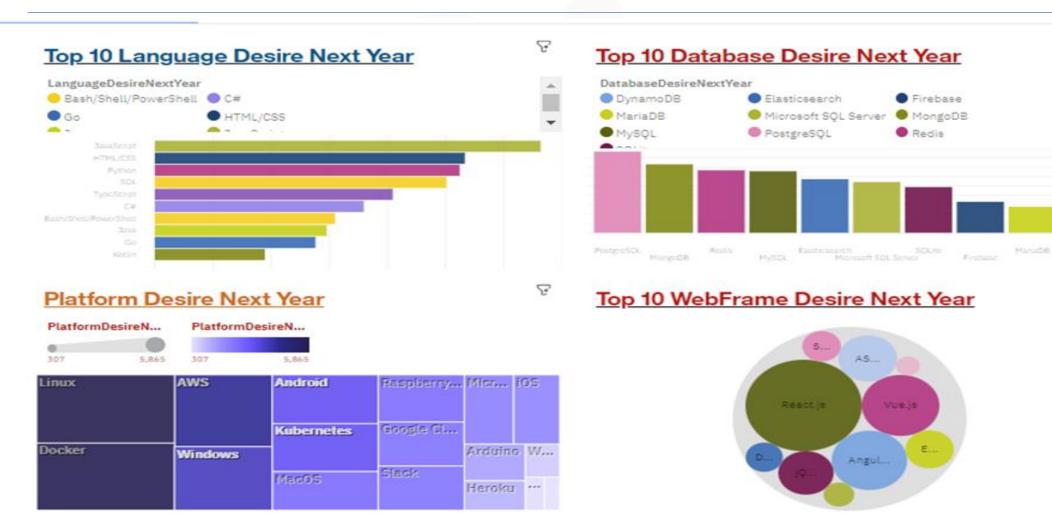
https://dataplatform.cloud.ibm.com/dashboards/2b83e0ba-c150-43e3-ad0c-

32009c38754a/view/721fc6071ea335947feab5e407912d01 29312708babbd50bd4d67b495d337297a8681797c82b4f0bd 8150261f4bf135ccd

DASHBOARD TAB 1

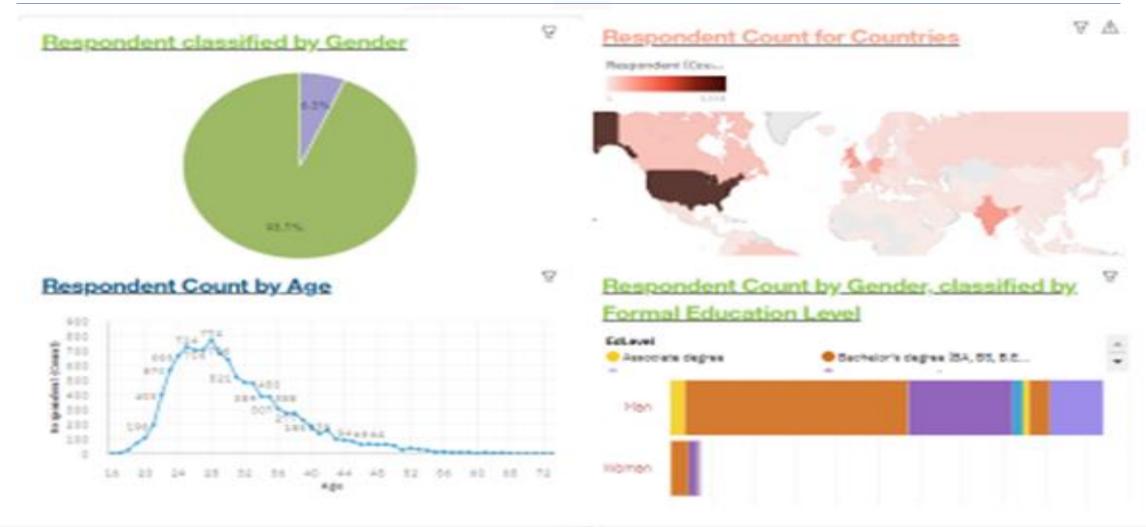


DASHBOARD TAB 2



 ∇

DASHBOARD TAB 3



DISCUSSION



- Age and Gender discrimination in IT Sector.
- Salary is also depend upon education qualification, experience and software comfortability.
- Technology Usage Trend Now and Future.

OVERALL FINDINGS & IMPLICATIONS

Findings

- New technological trends appear every year.
- Compared to men, women work fewer jobs.
- SQL and Python are the most popular.

Implications

- Programmer must learnt the latest technology.
- More countries should have the equal chance to be exposed to new technology
- There are must be given equal opportunity.



CONCLUSION

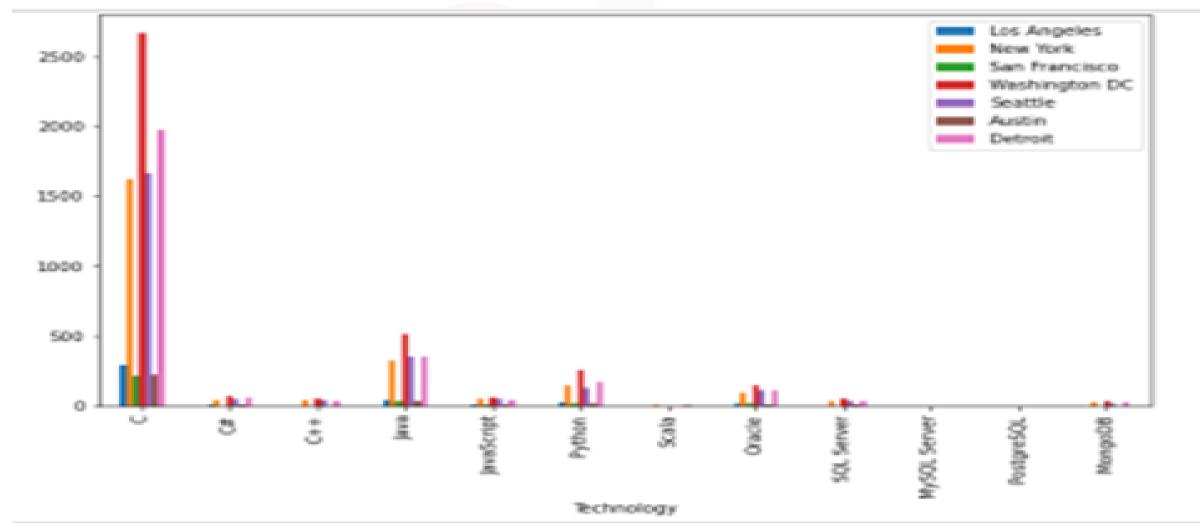


- Programming Languages, Database, Platform and Web frame Trends change day by day.
- Employment varies on Demographics Trends • Gender and Education
- Salary depends on experience and usage of trending software.
- Women are less employed than man.

APPENDIX



JOB POSTINGS



POPULAR LANGUAGES

