

Future skill requirements Report

Christophe Mbounang Fongang 23.08.2021

OUTLINE



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

EXECUTIVE SUMMARY



- This Report present the result of the Analysis of future skill requirements for the annual report of global IT and business consulting services
- I'll begin by scraping internet web sites and accessing APIs to collect data in various formats like .csv files, excel sheets, ans databases
- Then apply statistical techniques to analyse the data
- In the end, I'll bring all of Information together by using IBM Cognos Analytics to create a dashboard

INTRODUCTION



- This Analyst is to identify future skill requirements in order to keep pace with changing technologies and remain competitive
- The task consist of collecting data from various sources and identifying trends for this year's report on emerging skills for Global It business consulting
- The gold of this analysis is to answer the questions:
 - What are the top programming languages in demand?
 - What are the top database in demand?
 - What are the popular IDEs?

METHODOLOGY



- Origin of Data: https://stackoverflow.blog/2019/04/09/the-2019-stackoverflow-developer-survey-results-are in/?utm_medium=Exinfluencer&utm_source=Exinfluencer&utm_content=0 00026UJ&utm_term=10006555&utm_id=NA-SkillsNetwork-Channel-SkillsNetworkCoursesIBMDA0321ENSkillsNetwork21426264-2021-01-01
 - Data Collection using APIS, Webscraping and explore Data that are the top programming skills that are most in demand from various sources including:
 - Job postings
 - Training portals
 - Surveys
- Data Wranglling to Determine Missing Values, Removing Duplicates and Normalizing Data
- Using statistical tools to Analyse the Data in order to find:
 - Distribution
 - Outliers
 - Correlation
- Visualizing Distribution of Data, Relationship, composition

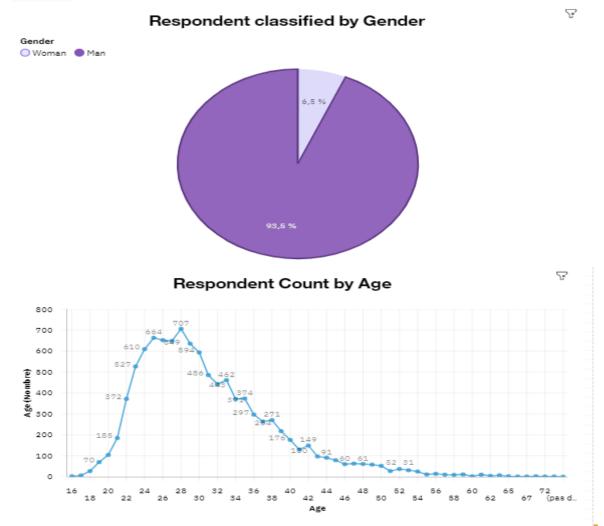
RESULTS

- The data was scraped and collected
- The data was wrangled
- The data was organized
- The data was analyzed
- The data was presented through graphs and dashboard

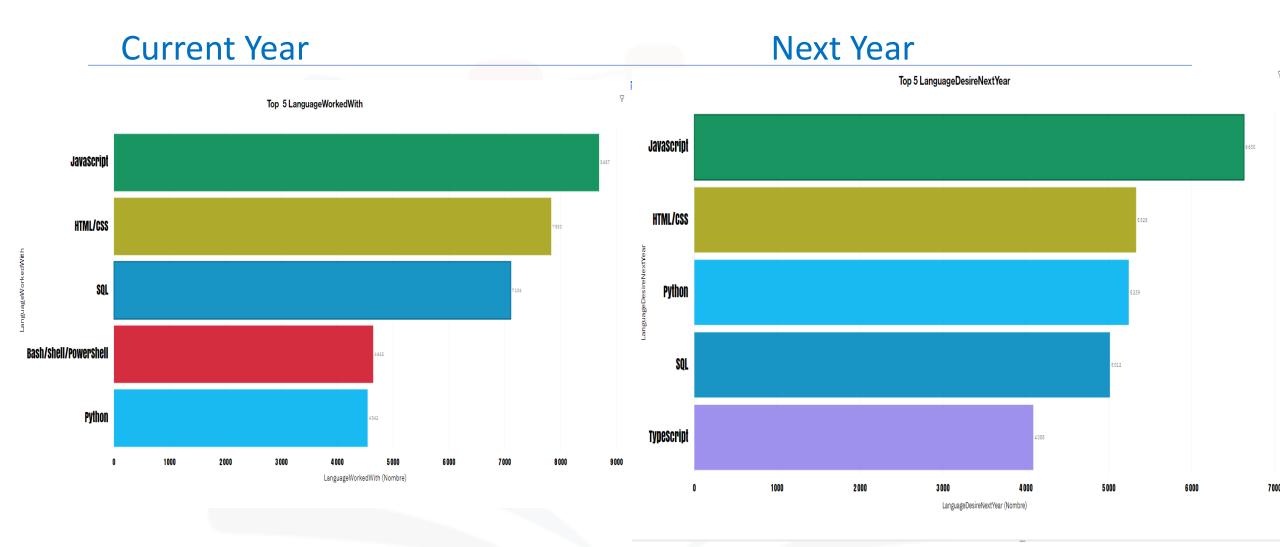
RESULTS

In the dataset there are many differents technologies of language, database, platform, webplatform. And the respondent have choice with one the are actually use and with one the would use in the next year.

The respondents are 93,5 percent male versus 6,5 percent female, most of them in the United States and between 16 and 72 years old



PROGRAMMING LANGUAGE TRENDS



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

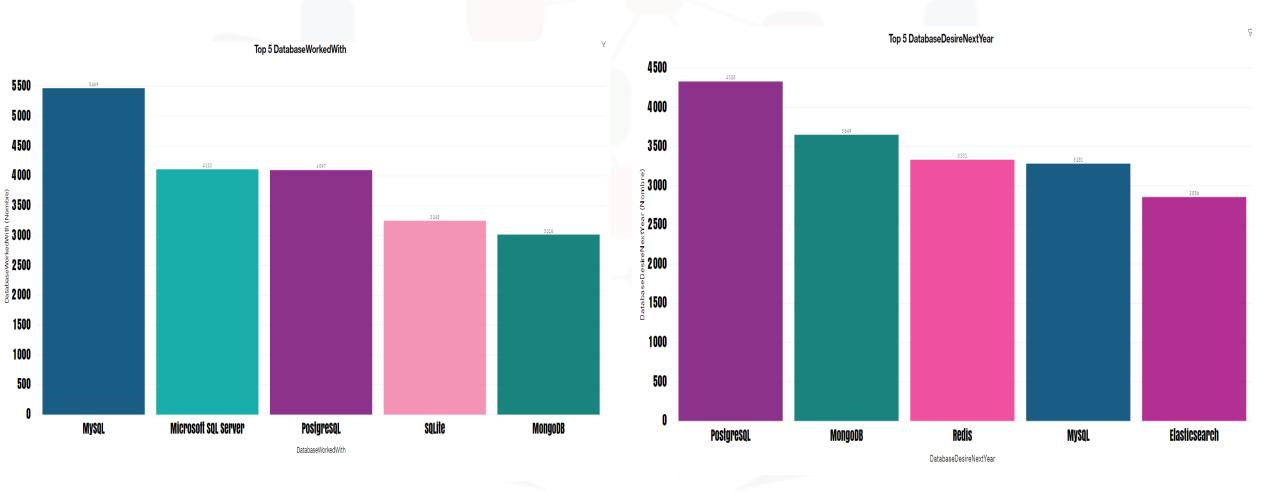
Findings

- Javascript, css,sql,shell, python are the most populate language in the current Year
- Javascript, css, python, sql,typescript are the most populate language in the next Year
- Python ist now in 3td position

- This language are uselfull in many domain(=many jobs opportunity)
- This language will stay in trend
- python is popular and it will become even more so(due to neue technologie like AI)

DATABASE TRENDS

Current Year Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

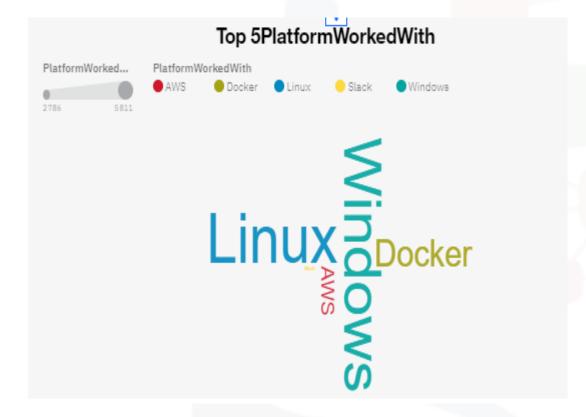
- MySQL, MS SQL Server, PostgreSQL, SQLlite, MongoDB are the most popular used Database in the current Year
- PostgreSQL, MongoDB, Redis, MySQL, Eleasticsearch are the most selected Database for the next Year
- PostgreSQL and MongoDB will become more popular.
- Elasticsearch and Redis will come in trend

- Ist a good think to know how to work with minimal 2 Database
- MySQL ,PostgreSQL and MongoDB are important to know
- You should learn how to use Redis and Eleasticsearch maybe there the next technologie

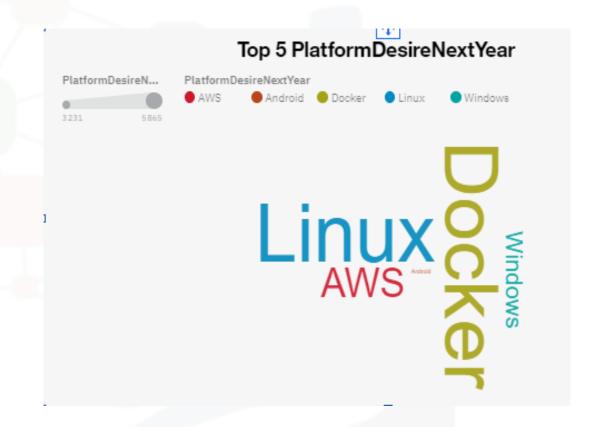


PLATFORM TRENDS

Current Year



Next Year



PLATFORM TRENDS - FINDINGS & IMPLICATIONS

Findings

- Linux, Windows, Docker, AWS are the most popular used Platform
- Docker come strong in trend

- it's good to know how to work with at least two of this You should
- You should learn how to use Docker



WEBFRAME TRENDS

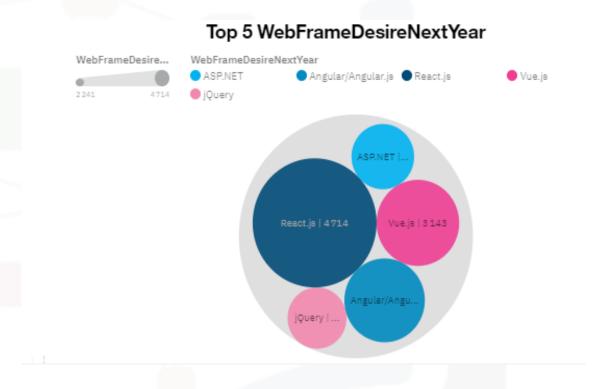
Current Year

Top 5 WebFrameWorkedWith WebFrameWorke... ASP.NET Angular/Angular.js Express React.js

jQuery

ngular/Angul

Next Year



WEBPFRAME TRENDS - FINDINGS & IMPLICATIONS

Findings

- JQuery, Angular, React.JS, APS.NET, EXPRESS are the most popular used Webframe in the current Year
- React.JS, Vue Js, and Angular come in trend in the next Year

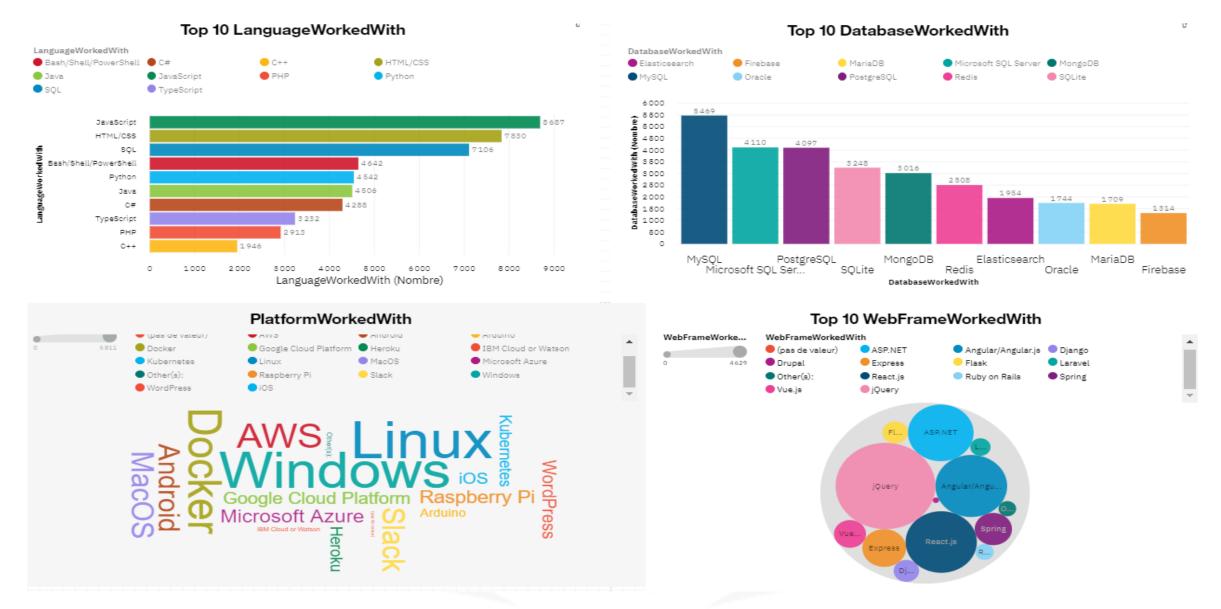
- it's good to know how to work with at least two of this You should
- You should learn how to use React.JS and Angular

DASHBOARD

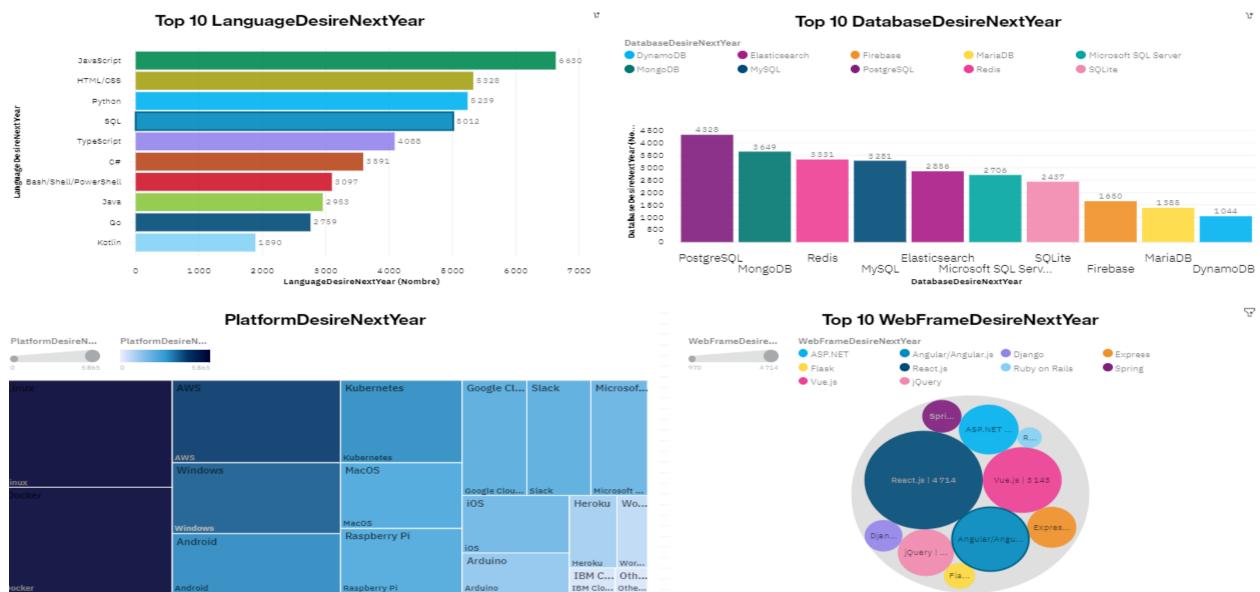


The permanent link of the read-only view of the Cognos dashboard: https://eu-gb.dataplatform.cloud.ibm.com/dashboards/406999f2-2555-426b-8d53-33cf2583a034/view/7321c90331e263ca55c7b1e4079f7e027c3e765be1bbd10b83817b495a317897a86c4797c82c1e098e145661a0eb125fca

DASHBOARD TAB 1



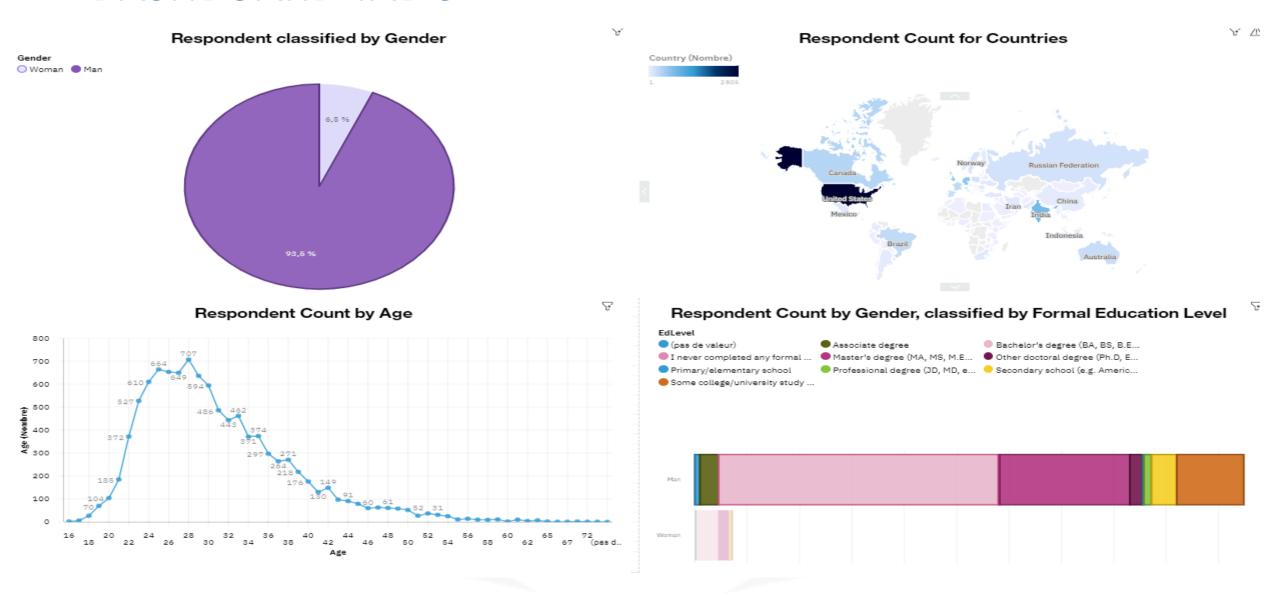
DASHBOARD TAB 2







DASHBOARD TAB 3







DISCUSSION



 Popular technologies vary rapidly from year to year so it would be good to always know two in the fields that interest us and to have the ability to adapt quickly to change and have multiple job opportunities.

OVERALL FINDINGS & IMPLICATIONS

Findings

- The top programming languages in demand are: Javascript, css, python, sql,typescript
- The top database in demand are: PostgreSQL, MongoDB, Redis, MySQL, Eleasticsearch
- The popular IDEs are: Angular, React.JS, APS.NET, Vue JS, JQuery

- there are several job opportunities for those who master these Programming languages
- there are several job opportunities for those who master these technologies
- there are several job opportunities for those who master these technologies

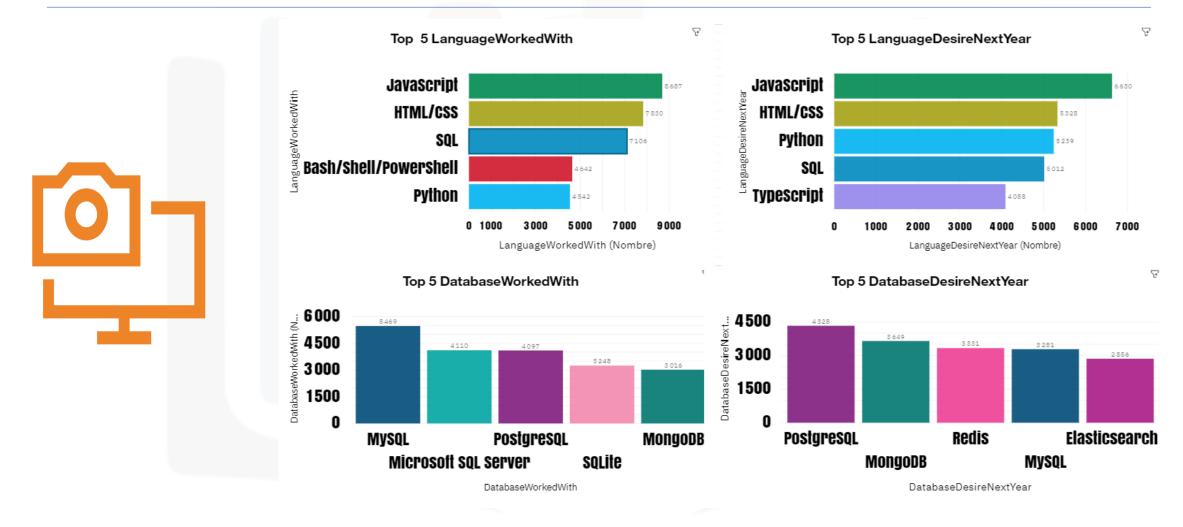


CONCLUSION



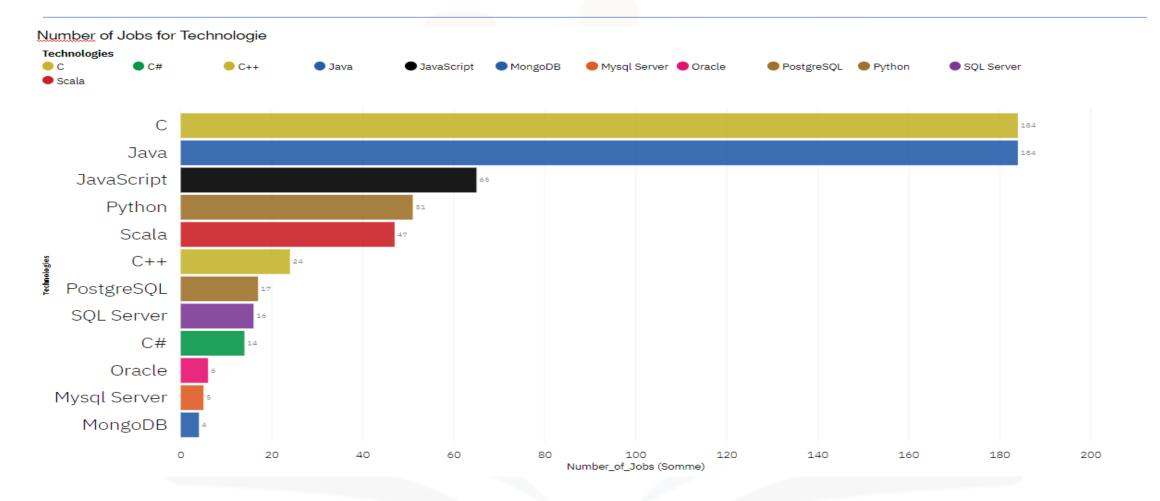
- several people are interested in web technologies(javascript, html, React.JS/Angular, Mysql)
- many people are more interested to learn the cloud in the next year(Drocker)
- python is and becoming more and more popular
- to have various job opportunities with a good salary, you must be able to adapt easily to technological change and constantly learn.
- It would therefore be good to know how quickly on average learning a technology (programming language, database platform) takes, to be able to easily plan your learning and always be qualified for new positions.

APPENDIX





GITHUB JOB POSTINGS



POPULAR LANGUAGES

