



WUZZUF

Make Your Choice

Read CSV

Jobs Per Company

Jobs By Locations

Jobs By Skills

Jobs By Title

Jobs By Years

Visualize Jobs Per
company

Visualize Jobs Per
Location

Visualize Jobs Per
Skills

Visualize Jobs Per
Title

Visualize Jobs Per
Years of Experience

Wuzzuf Spark Spring Boot

(Team 3)

Project Link :-

- https://github.com/FadyNasser/Wuzzuf_Spark_Spring_Boot

Team Members :-

- Fady Nasser Fawzy
- Saieed Osama Saieed
- Omar Ayman Abdelsamad

Overview

- A Web Application of Apache Spark using Spring Boot MVC.
- Link :- <http://localhost:8080/Wuzzuf>

Goals

1. Load Wuzzuf Dataset to perform Data science operations on it.
2. Build an Apache Spark Application to deal with this dataset.
3. Integrate The Apache Spark with Spring Boot to build a web application that handles this dataset.
4. Preview some insights obtained from the dataset.

Specifications

- Spring is a very popular Java-based framework for building web and enterprise applications.
- Spring framework provides flexibility to configure beans/objects in multiple ways such as XML, Annotations, and JavaConfig.
- Spring's dependency injection approach encourages writing testable code
- Spring Boot is basically an extension of the Spring framework which eliminated the boilerplate configurations required for setting up a Spring application.
- Apache Spark is an open-source distributed general-purpose cluster-computing framework.
- Java JDK Version 1.8.
- DataSet Link :- <https://www.kaggle.com/omarhanny/wuzzuf-jobs>

Milestones

I. Wuzzuf Spark Only

- A Spark Application used to read wuzzuf dataset and then Convert it to data frame and display some of them.
- Display structure and summary of the data.
- Clean the data (null, duplications).
- Count the jobs for each company and display that in order and Show them in a pie chart.
- Get the most popular job titles and Show them in a bar chart.
- Get the most popular areas and Show them in a bar chart).
- Print skills one by one and how many each repeated and order the output to find out the most important skills required.
- Factorize the YearsExp feature and convert it to numbers in a new column.
- Apply Linear Regression to job titles and companies with respect to the factorized YearExp.
- Apply K-means for job titles and companies.

II. Wuzzuf Spark Spring Boot

- A Web Application of Apache Spark using Spring Boot MVC.
- Integrated the Wuzzuf spark application with spring boot to have a web application that perform the tasks separately and show them one then the other.
- Interface made using HTML and CSS which is responsible for sending and getting requests from the web application.

Project Modules and Classes

I. Main Class

- A Class responsible for starting the spring application and directing the app to the index.html home page found in “src/resources/templates/index.html”.

II. Application Config Class

- Contains WebMvcConfig Class which is responsible for handling images resources.
- Contains ApplicationConfig Class which is responsible for initializing the web app.

III. Spark Controller Class

- Which is the main class of our project that starts spark session then handles every tasks according to the request it gets, which contains the following :-
 1. Wuzzuf_ReadCSV :- Responsible for reading the dataset, removing nulls values and duplicates then print some of it with the dataset schema and summary.
 2. Wuzzuf_JobsByCompany :- Responsible for printing each job with its count and generate a pie and bar chart for them.
 3. JobsPerCompanyImg :- Responsible for printing the Pie chart of jobs.
 4. Wuzzuf_JobsByCompany :- Responsible for printing each job with its count and generate a pie and bar chart for them.
 5. JobsPerCompanyImg :- Responsible for printing the Pie chart of jobs.

6. JobsPerCompanyWithoutConfImg :- Responsible for printing the Pie chart of jobs without “Confidential” Record for more efficient data representation.
7. Wuzzuf_JobsByTitle :- Responsible for printing each Title with its count and generate a bar chart for them.
8. JobsPerTitleImg :- Responsible for printing the bar chart of titles.
9. Wuzzuf_JobsByLocations :- Responsible for printing each Location with its count and generate a bar chart for them.
10. JobsPerLocationImg :- Responsible for printing the bar chart of Locations.
11. Wuzzuf_JobsBySkillss :- Responsible for printing each Skill with its count and generate a bar chart for them.
12. JobsPerSkillsImg :- Responsible for printing the bar chart of Skills.
13. Wuzzuf_JobsByYears :- Responsible for transforming “YearExp” Column to integer by splitting the record or “YearExp” and get first digit then group by them to print each Year with its count and generate a bar chart for them. After that, it split the dataset to lists of dataset rows according to the year or experiences and print each group of years separately.
14. JobsPerYearsofExperiences :- Responsible for printing the bar chart of Years of experiences.
15. Wuzzuf_MachineLearning :-
 - Works only on the Wuzzuf-Spark-only Project as vector assembler conflicts with Spring Boot
 - It is responsible for Using Linear Regression to predict Titles and Company with respect to Years of Experiences and also Using K-Means to Predict Titles and Companies.
 - Accuracy isn’t working fine since we used to transform titles and companies to integer vectors by adding an ID column to classify according to it.

16. BarChart_Data Function :- Used to Plot Bar charts for given lists and save them as jpg to be loaded by the web app.
17. PieChart_Data Function :- Used to Plot Pie charts for given lists and save them as jpg to be loaded by the web app.
18. ML_Prediction_Title :- Linear Regression model for predicting Title with respect to Years of Experiences.
19. ML_Prediction_Company :- Linear Regression model for predicting Company with respect to Years of Experiences.
20. KMeans_Prediction_Title :- KMeans Model used to predict Title by making clusters with same size of data.
21. KMeans_Prediction_Company :- KMeans Model used to predict Company by making clusters with same size of data.

IV. Webapp Directory

- Contains Images that are shown by the Sparkcontroller requests.

V. HTML Page

- Found in “src/resource/templates/index.html” which contains the code of the interface of the web app.

Steps To Run

I. Wuzzuf Spark Spring Boot

1. Download the project.
2. Run the application.
3. Browser Url :- <http://localhost:8080/Wuzzuf>
4. Click on the desired button to print the data.
5. Press the browser back to navigate to another button.

II. Wuzzuf Spark Only

1. Download the project.
2. Run the application.
3. Wait for the output to come one after the other till the program terminates.

WUZZUF

Make Your Choice

Read CSV

Jobs Per Company

Jobs By Locations

Jobs By Skills

Jobs By Title

Jobs By Years

Visualize Jobs Per
company

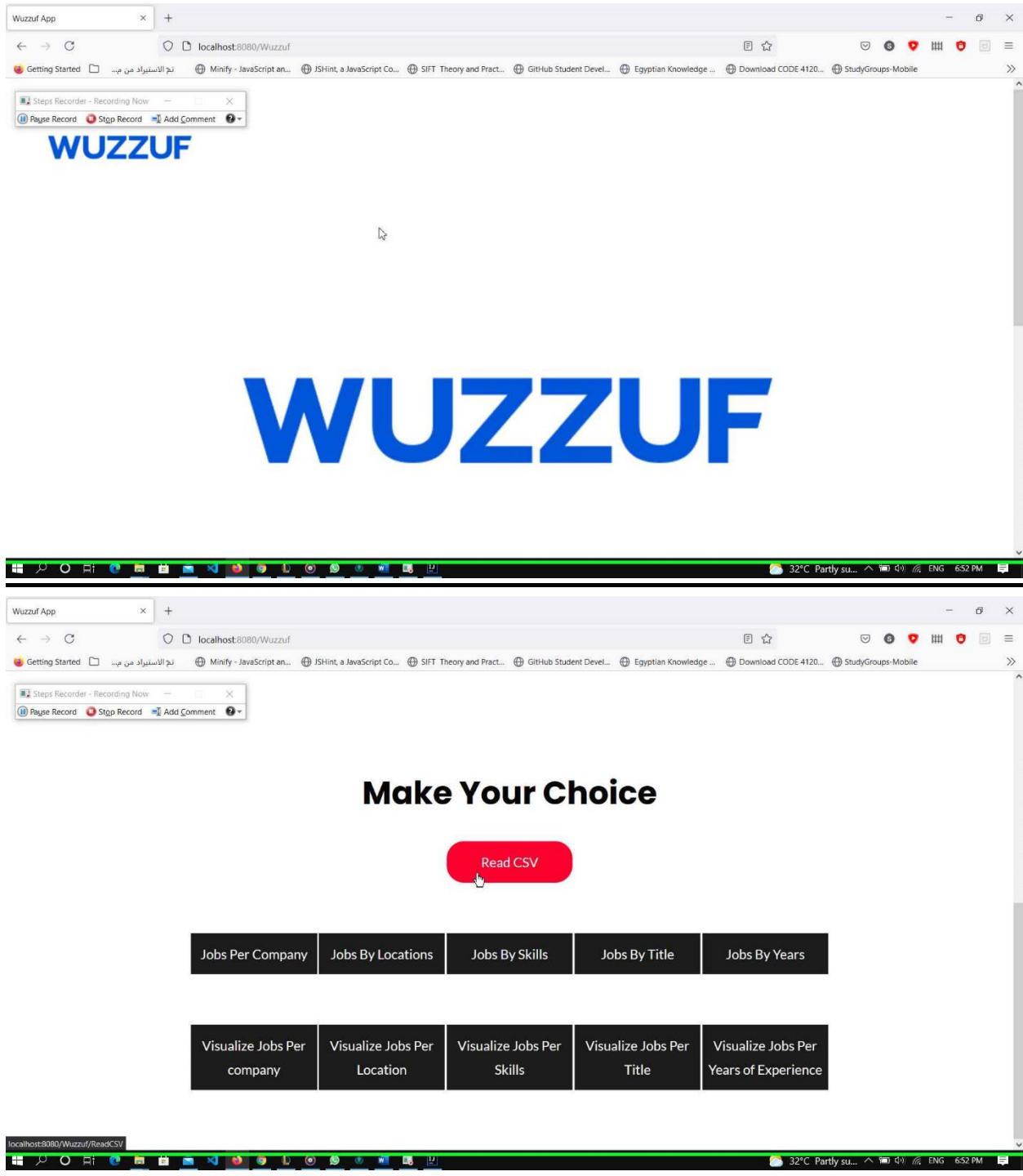
Visualize Jobs Per
Location

Visualize Jobs Per
Skills

Visualize Jobs Per
Title

Visualize Jobs Per
Years of Experience

Project Screen Shots



localhost:8080/Wuzzuf/ReadCSV

← → ↺

localhost:8080/Wuzzuf/ReadCSV

Getting Started | نج الأسبوع من ج... | Minify - JavaScript an... | JSHint, a JavaScript Co... | SIFT Theory and Pract... | GitHub Student Devel... | Egyptian Knowledge ... | Download CODE 4120... | StudyGroups-Mobile

Initialize Spark Session

Steps Recorder - Recording Now

Pause Record | Stop Record | Add Comment

Running spark with support of Spring boot

Spark version = 2.4.5

Read csv..

Total records 4380

Schema

root |-- Title: string (nullable = true) |-- Company: string (nullable = true) |-- Location: string (nullable = true) |-- Type: string (nullable = true) |-- Level: string (nullable = true) |-- YearsExp: string (nullable = true) |-- Country: string (nullable = true) |-- Skills: string (nullable = true)

Sample data

-RECORD 0----- Title | Customer Service ... Company | Johnson Controls Location | New Cairo Type | Full Time Level | Entry Level YearsExp | 1-3 Yrs of Exp Country | Cairo Skills | Call Center, Cust... -RECORD 1----- Title | Marketing Manager Company | SYE English Commu... Location | Dokki Type | Full Time Level | Manager YearsExp | 5-10 Yrs of Exp Country | Giza Skills | Market Research, ... -RECORD 2----- Title | Medical Represent... Company | So Value Pharma Location | Cairo Type | Full Time Level | Entry Level YearsExp | 0-5 Yrs of Exp Country | Egypt Skills | Cardio-metabolic, ... -RECORD 3----- Title | Order Handling Sp... Company | Johnson Controls Location | New Cairo Type | Full Time Level | Experienced YearsExp | 3-5 Yrs of Exp Country | Cairo Skills | Supply Officer, S... -RECORD 4----- Title | Storekeeper Company | Confidential Location | Cairo Type | Full Time Level | Experienced YearsExp | 3+ Yrs of Exp Country | Egypt Skills | Warehousing, Stor... -RECORD 5----- Title | Senior .NET Devel... Company | Dexef Location | Maadi Type | Full Time Level | Experienced YearsExp | 3-5 Yrs of Exp Country | Cairo Skills | ASP.NET, Desktop ... -RECORD 6----- Title | Preschool French ... Company | Leap Development Hub Location | New Cairo Type | Full Time Level | Entry Level YearsExp | 1-3 Yrs of Exp Country | Cairo Skills | Education, Educat... -RECORD 7----- Title | Junior Business D... Company | E3mel Business fo... Location | Maadi Type | Full Time Level | Entry Level YearsExp | 1-3 Yrs of Exp Country | Cairo Skills | Sales Target, Sal... -RECORD 8----- Title | Indoor Sales Exec... Company | Line Design Location | Nasr City Type | Full Time Level | Experienced YearsExp | 1-3 Yrs of Exp Country | Cairo Skills | sales skills, Sal... -RECORD 9----- Title | Content Creator /... Company | EL KHETA Location | Alexandria Type | Full Time Level | Entry Level YearsExp | 1+ Yrs of Exp Country | Egypt Skills | Copywriter, SEO, ... -RECORD 10----- Title | STEAM Instructor ... Company | BeSteam Location | Nasr City Type | Internship Level | Student YearsExp | null Yrs of Exp Country | Cairo Skills | Education, Traini... -RECORD 11----- Title | English Instructo... Company | Speakup Location | Helwan Type | Part Time Level | Freelance / Project YearsExp | 1-5 Yrs of Exp Country | Cairo Skills | 3 Vacancies, Male... -RECORD 12----- Title | Lawyer - Cairo Company | Bayt El Khebra Location | Maadi Type | Full Time Level | Experienced YearsExp | 15+ Yrs of Exp Country | Cairo Skills | legal, lawyer, Legal -RECORD 13----- Title | Site Supervisor ... Company | ZDS Architects Location | Cairo Type | Full Time Level | Experienced YearsExp | 2+ Yrs of Exp Country | Egypt Skills | Architecture, Eng... -RECORD 14----- Title | Junior Personnel ... Company | El-Mouasser Books Location | Nasr City Type | Full Time Level | Entry Level YearsExp | 1-2 Yrs of Exp Country | Cairo Skills | Human Resources (... -RECORD 15----- Title | Floor controller Company | Atheel CC Location | Cairo Type | Full Time Level | Entry Level YearsExp | null Yrs of Exp Country | Egypt Skills | Communication Ski... -RECORD 16----- Title | Procurement Spec... Company | ZDS Architects Location | Cairo Type | Full Time Level | Experienced YearsExp | 3+ Yrs of Exp Country | Egypt Skills | Construction, Com... -RECORD 17----- Title | Receptionist Company | Atheel CC Location | Cairo Type | Full Time Level | Entry Level YearsExp | null Yrs of Exp Country | Egypt Skills | Administration, O... -RECORD 18----- Title | Product Manager ... Company | Silicon21 Location | Nasr City Type | Full Time Level | Freelance / Project YearsExp | 3-5 Yrs of Exp Country | Cairo Skills | Electronics, Info... -RECORD 19----- Title | Resident Engineer... Company | Silicon21 Location | Nasr City Type | Full Time Level | Entry Level YearsExp | 1-2 Yrs of Exp Country | Cairo Skills | Telecom, IT, Comp... only showing top 20 rows

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localhost:8080/Wuzzuf/ReadCSV

Getting Started | نج الأسبوع من ج... | Minify - JavaScript an... | JSHint, a JavaScript Co... | SIFT Theory and Pract... | GitHub Student Devel... | Egyptian Knowledge ... | Download CODE 4120... | StudyGroups-Mobile

Steps Recorder - Recording Now

Pause Record | Stop Record | Add Comment

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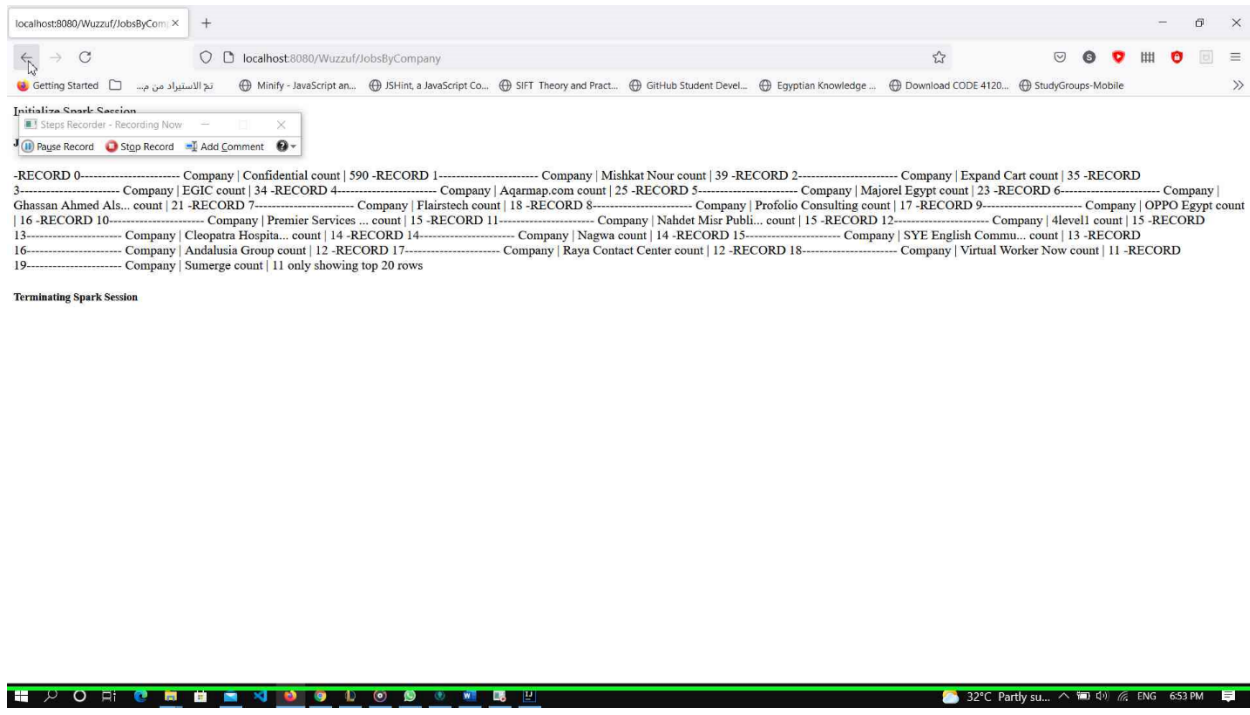
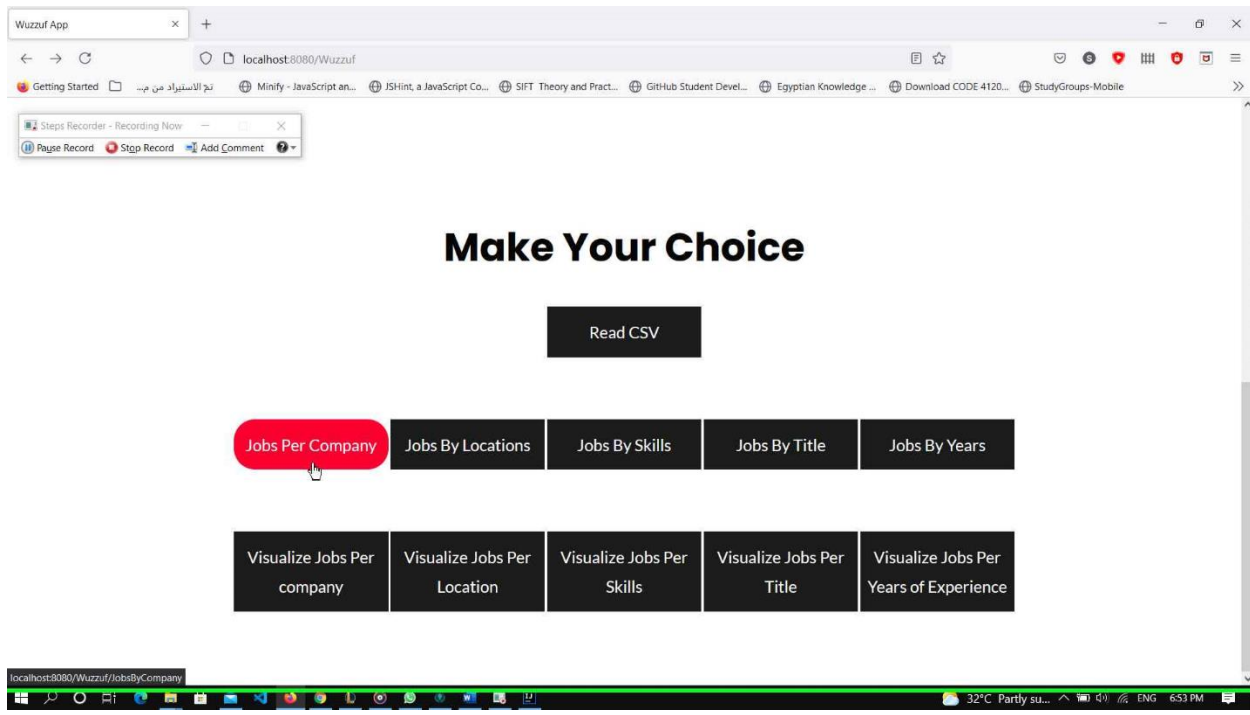
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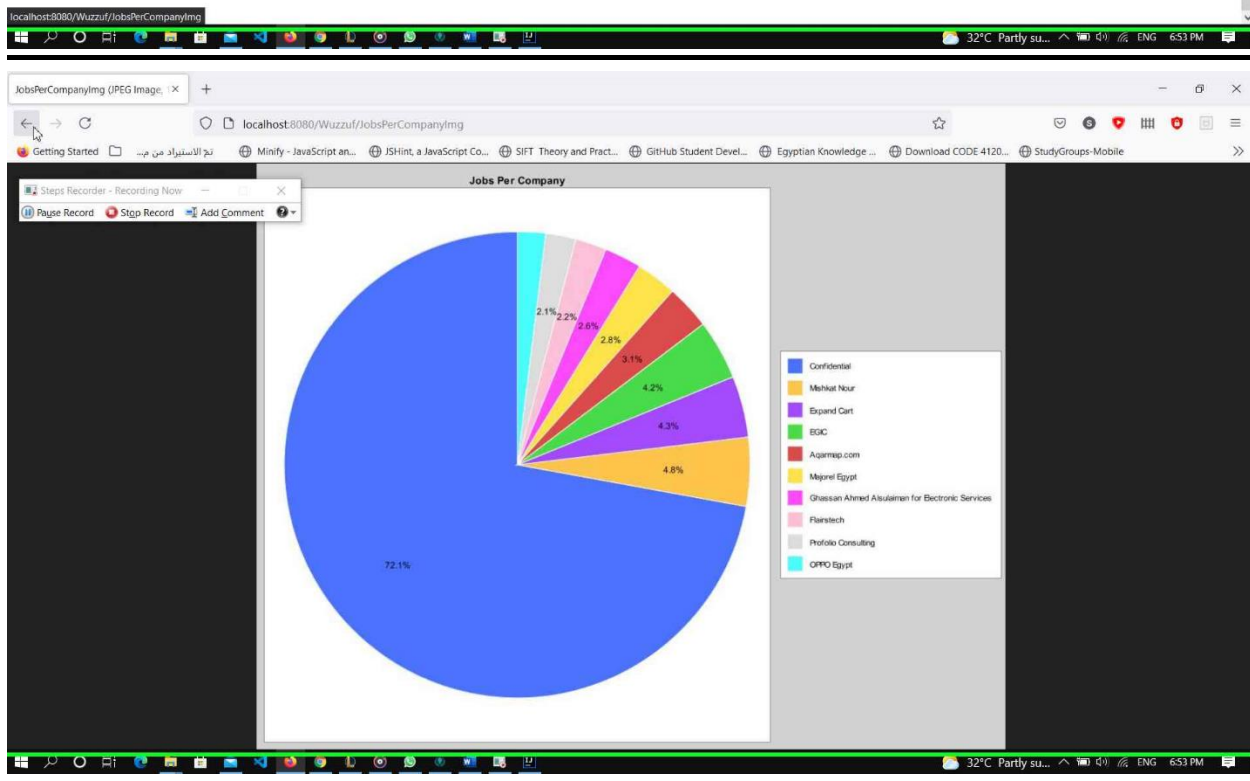
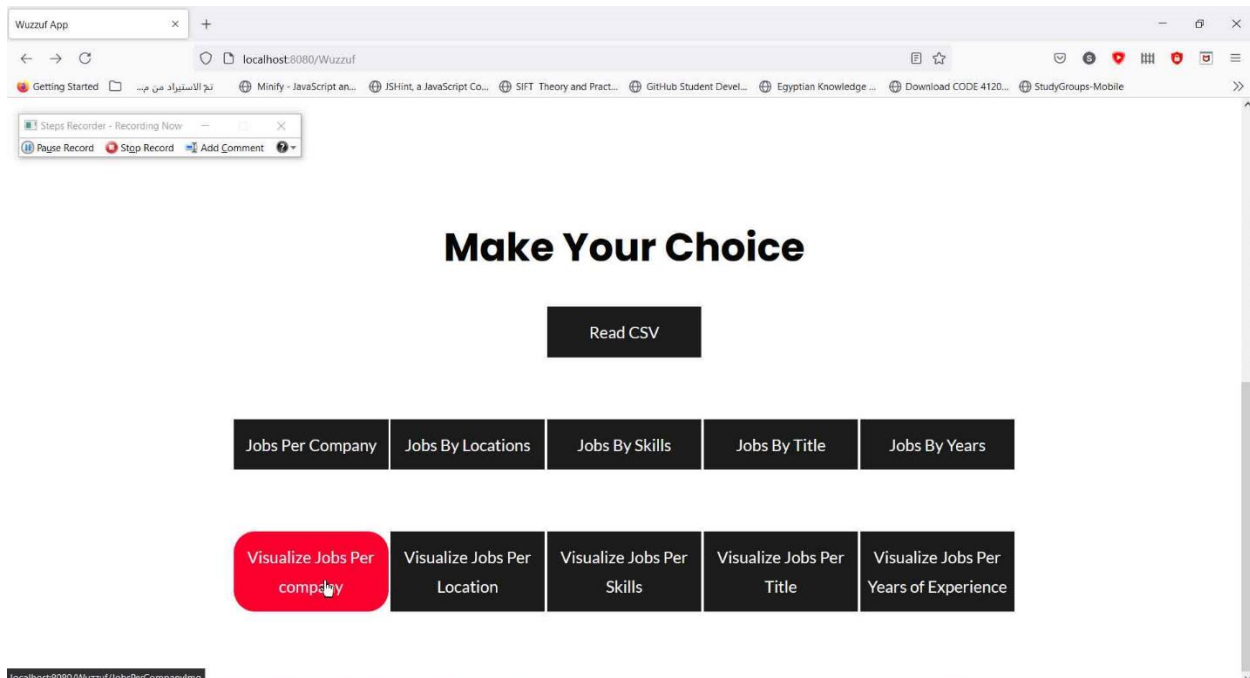
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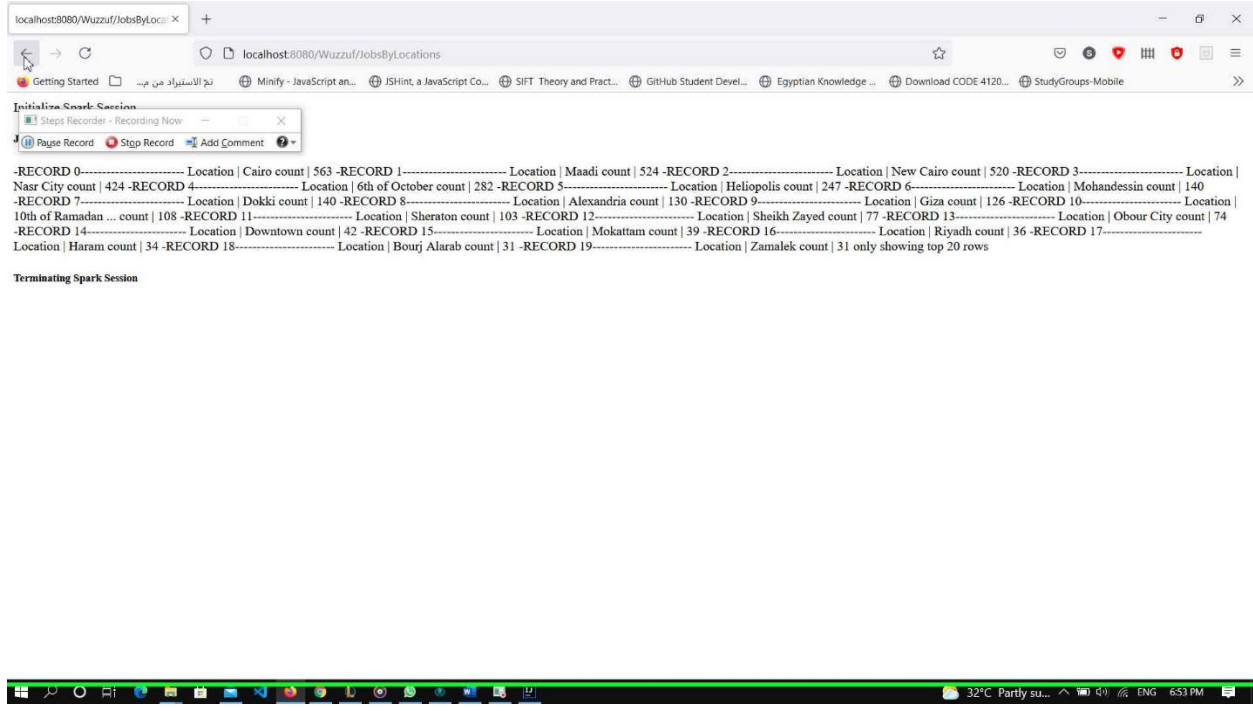
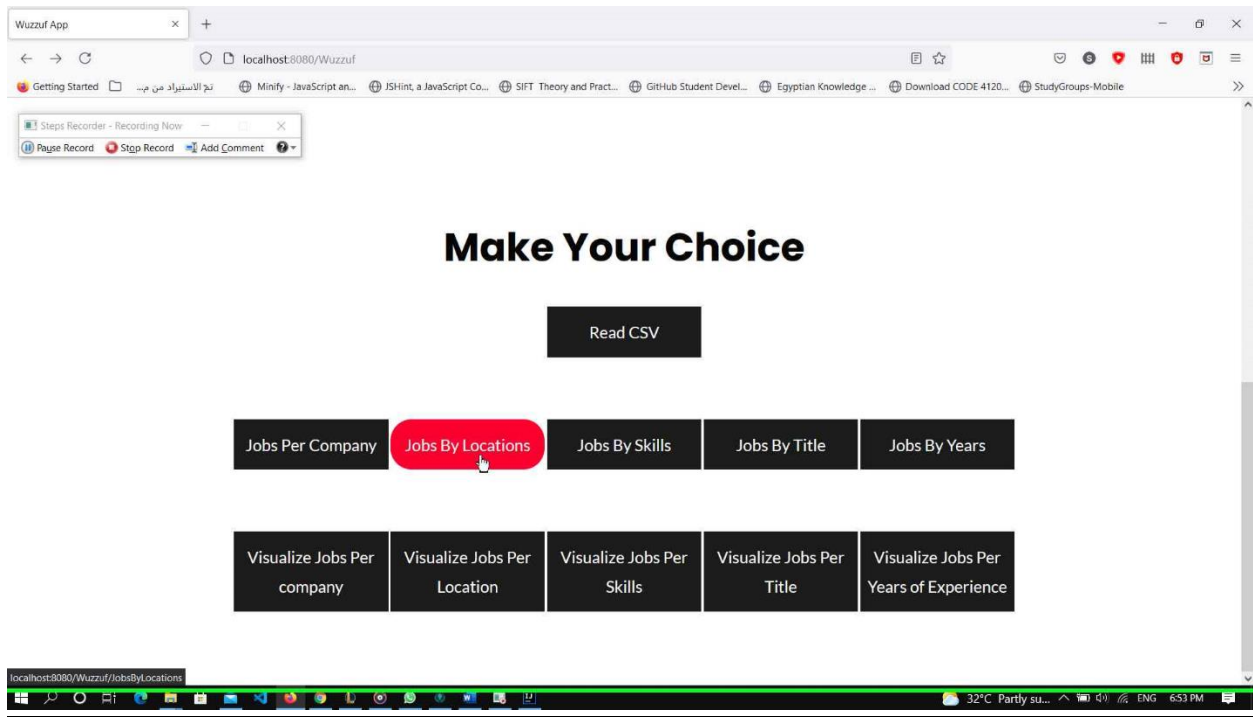
Filtered Wuzzuf DataSet Summary

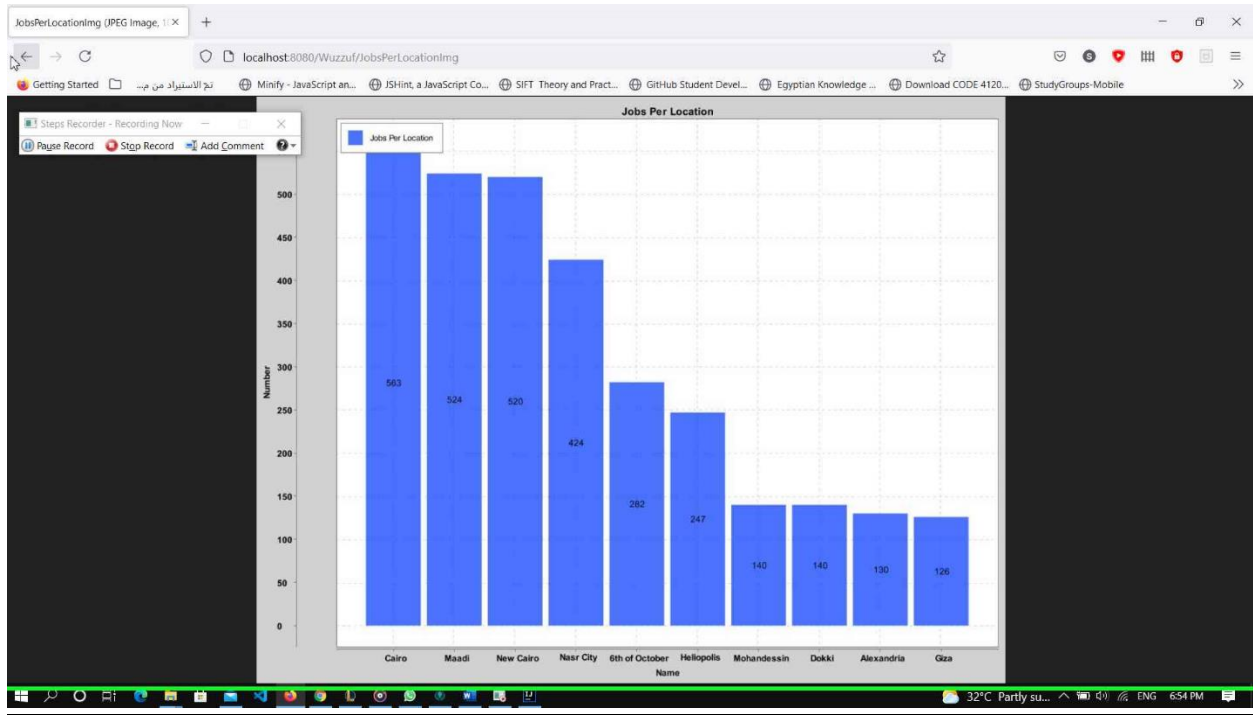
-RECORD 0----- summary | count Title | 4377 Company | 4377 Location | 4377 Type | 4377 Level | 4377 YearsExp | 4377 Country | 4377 Skills | 4377 -RECORD 1----- summary | mean Title | null Company | Infinity Location | null Type | null Level | null YearsExp | null Country | null Skills | null -RECORD 2----- summary | stddev Title | null Company | NaN Location | null Type | null Level | null YearsExp | null Country | null Skills | null -RECORD 3----- summary | min Title | "Clients Relation... Company | "CRT ""Hr recruit... Location | 10th of Ramadan ... Type | Freelance / Project Level | Entry Level YearsExp | 0-1 Yrs of Exp Country | Alexandria Skills | .NET Core, Bootst... -RECORD 4----- summary | max Title | ملوب تحصل | Col... Company | سلسلة معامل حديثة... Location | khanka Type | Work From Home Level | Work From Home YearsExp | null Yrs of Exp Country | United States Skills | قفين, صياتر, ميك...

Terminating Spark Session









localhost:8080/Wuzzuf/JobsBySkills

Getting Started

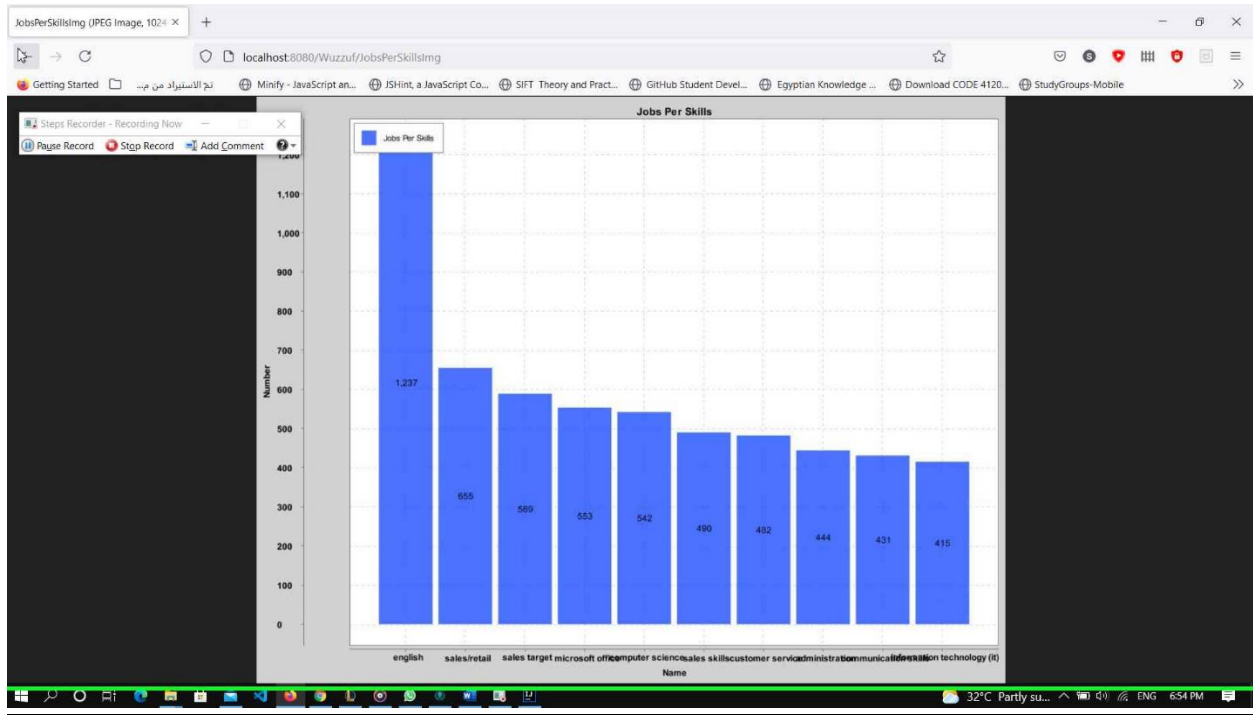
Steps Recorder - Recording Now

Pause Record Stop Record Add Comment

Initialize Spark Session

-RECORD 0----- Skills | english count | 1237 -RECORD 1----- Skills | sales/retail count | 655 -RECORD 2----- Skills | sales target count | 589 -RECORD 3----- Skills | microsoft office count | 553 -RECORD 4----- Skills | computer science count | 542 -RECORD 5----- Skills | sales skills count | 490 -RECORD 6----- Skills | customer service count | 482 -RECORD 7----- Skills | administration count | 444 -RECORD 8----- Skills | communication sk... count | 431 -RECORD 9----- Skills | information tech... count | 415 -RECORD 10----- Skills | customer support count | 317 -RECORD 11----- Skills | software develop... count | 309 -RECORD 12----- Skills | customer care count | 304 -RECORD 13----- Skills | accounting/finance count | 302 -RECORD 14----- Skills | sales skills count | 290 -RECORD 15----- Skills | customer service... count | 287 -RECORD 16----- Skills | marketing/pr/adv... count | 265 -RECORD 17----- Skills | financial analysis count | 252 -RECORD 18----- Skills | communication count | 225 -RECORD 19----- Skills | computer skills count | 219 only showing top 20 rows

Terminating Spark Session



localhost:8080/Wuzzuf/JobsByTitle

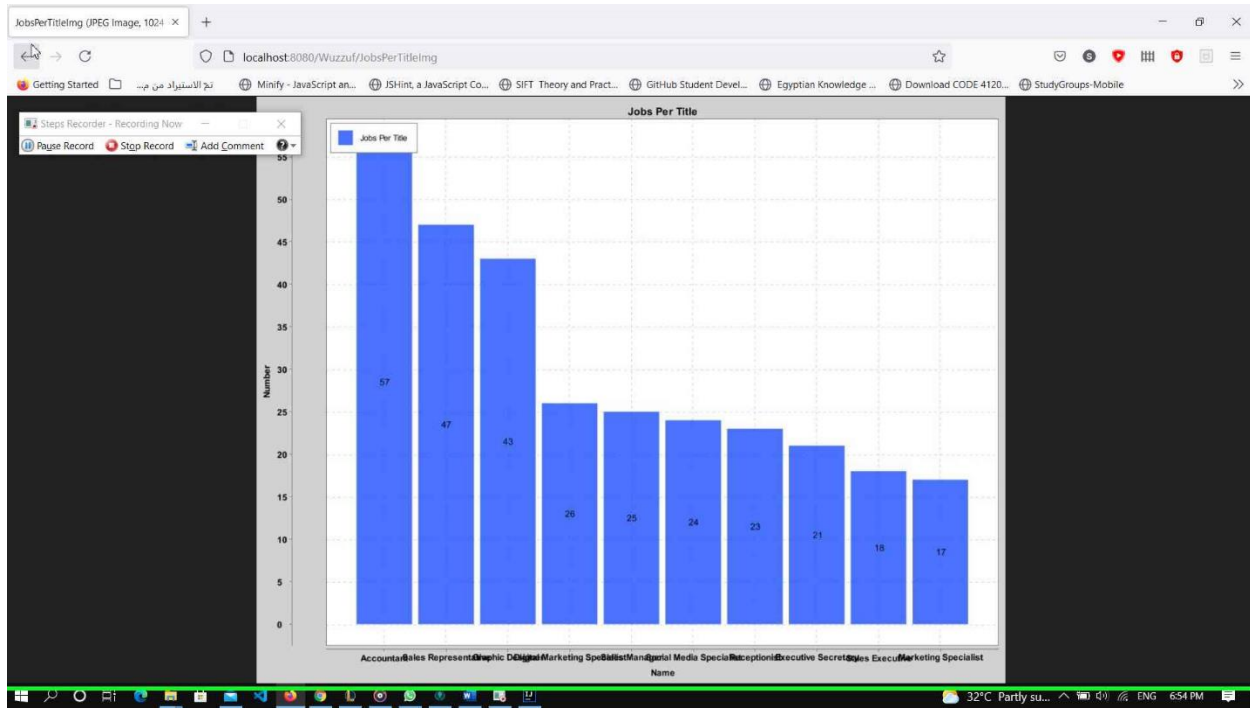
Initialise Spark Session

Steps Recorder - Recording Now

Pause Record Stop Record Add Comment

-RECORD 0----- Title | Accountant count | 57 -RECORD 1----- Title | Sales Representative count | 47 -RECORD 2----- Title | Graphic Designer count | 43 -RECORD 3----- Title | Digital Marketing... count | 26 -RECORD 4----- Title | Sales Manager count | 25 -RECORD 5----- Title | Social Media Spec... count | 24 -RECORD 6----- Title | Receptionist count | 23 -RECORD 7----- Title | Executive Secretary count | 21 -RECORD 8----- Title | Sales Executive count | 18 -RECORD 9----- Title | Marketing Specialist count | 17 -RECORD 10----- Title | Sales Engineer count | 16 -RECORD 11----- Title | Telesales Agent count | 16 -RECORD 12----- Title | Marketing Manager count | 16 -RECORD 13----- Title | Senior Accountant count | 16 -RECORD 14----- Title | Project Manager count | 16 -RECORD 15----- Title | Business Developm... count | 15 -RECORD 16----- Title | HR Generalist count | 15 -RECORD 17----- Title | Senior Graphic De... count | 15 -RECORD 18----- Title | Office Manager count | 14 -RECORD 19----- Title | General Accountant count | 13 only showing top 20 rows

Terminating Spark Session



localhost:8080/Wuzzuf/JobsByYears

localhost:8080/Wuzzuf/JobsByYears

Getting Started | Minify - JavaScript an... | JSHint, a JavaScript Co... | SIFT Theory and Pract... | GitHub Student Del... | Egyptian Knowledge ... | Download CODE 4120... | StudyGroups-Mobile

Steps Recorder - Recording Now

Initialize Search Section

root |-- Title: string (nullable = true) |-- Company: string (nullable = true) |-- Location: string (nullable = true) |-- Type: string (nullable = true) |-- Level: string (nullable = true) |-- YearsExp: integer (nullable = true) |-- Country: string (nullable = true) |-- Skills: string (nullable = true)

-RECORD 0----- YearsExp | 0 count | 377 -RECORD 1----- YearsExp | 1 count | 910 -RECORD 2----- YearsExp | 2 count | 843 -RECORD 3----- YearsExp | 3 count | 898 -RECORD 4----- YearsExp | 4 count | 278 -RECORD 5----- YearsExp | 5 count | 529 -RECORD 6----- YearsExp | 6 count | 80 -RECORD 7----- YearsExp | 7 count | 130 -RECORD 8----- YearsExp | 8 count | 89 -RECORD 9----- YearsExp | 9 count | 6 -RECORD 10----- YearsExp | 10 count | 164 -RECORD 11----- YearsExp | 12 count | 7 -RECORD 12----- YearsExp | 13 count | 1 -RECORD 13----- YearsExp | 14 count | 1 -RECORD 14----- YearsExp | 15 count | 61 -RECORD 15----- YearsExp | 20 count | 3

Printing Each Year of Experiences Alone

- 0 Years of Experiences

-RECORD 0----- Title | Software Developer Company | AIESEC - MANSOURA Location | Itajuba Type | Internship Level | Entry Level YearsExp | 0 Country | Brazil Skills | Software Developm... -RECORD 1----- Title | Full Stack Develop... Company | VOC Apps Location | Maadi Type | Internship Level | Entry Level YearsExp | 0 Country | Cairo Skills | Startup, Full Sta... -RECORD 2----- Title | ERP Functional Su... Company | ZAD Solutions Location | Mohandessin Type | Full Time Level | Entry Level YearsExp | 0 Country | Giza Skills | Odoo, ERP, Busine... -RECORD 3----- Title | VC Personal Assis... Company | Confidential Location | Mahalla Kabra Type | Full Time Level | Entry Level YearsExp | 0 Country | Gharbia Skills | Personal Assist... -RECORD 4----- Title | Junior Serum Master Company | EasyKash Location | Giza Type | Internship Level | Entry Level YearsExp | 0 Country | Egypt Skills | Software Developm... -RECORD 5----- Title | Embedded firmware... Company | Confidential Location | Mansoura Type | Full Time Level | Experienced YearsExp | 0 Country | Dakahlia Skills | C/C++, Engineerin... -RECORD 6----- Title | Customer Acquisit... Company | Confidential Location | Maadi Type | Full Time Level | Part Time YearsExp | 0 Country | Cairo Skills | 3 Vacancies, Fema... -RECORD 7----- Title | Retail Sales Repr... Company | EGIC Location | Mounfya Type | Full Time Level | Entry Level YearsExp | 0 Country | Egypt Skills | Sales Skills, Sa... -RECORD 8----- Title | Office Administrator Company | Confidential Location | Cairo Type | Full Time Level | Entry Level YearsExp | 0 Country | Egypt Skills | Office Management... -RECORD 9----- Title | Digital Marketing... Company | Appgain Location | Dokki Type | Internship Level | Entry Level YearsExp | 0 Country | Giza Skills | Google Analytics... -RECORD 10----- Title | Social Media Spec... Company | Cakerelle Location | 6th of October Type | Internship Level | Entry Level YearsExp | 0 Country | Giza Skills | E-marketing, Engl... -RECORD 11----- Title | HR & Administrati... Company | Premelia Location | Mohandessin Type | Internship Level | Entry Level YearsExp | 0 Country | Giza Skills | Administration, H... -RECORD 12----- Title | Property Consultant Company | property today egypt Location | New Cairo Type | Full Time Level | Entry Level YearsExp | 0 Country | Cairo Skills | Real Estate, Sale... -RECORD 13----- Title | Environment & Hea... Company | Prometeon Pirelli... Location | Ameria Type | Internship Level | Entry Level YearsExp | 0 Country | Alexandria Skills | HSE, Environmenta... -RECORD 14----- Title | Customer Complain... Company | Rotografia Location | 6th of October Type | Full Time Level | Entry Level YearsExp | 0 Country | Giza Skills | Customer Care, Co... -RECORD 15----- Title | Social Media Mode... Company | PANTS Location | Heliopolis Type | Full Time Level | Entry Level YearsExp | 0 Country | Cairo Skills | Social Media, E-m... -RECORD 16----- Title | Viral Marketer/Vi... Company | Leadintop Location | Maadi Type | Full Time Level | Part Time YearsExp | 0 Country | Cairo Skills | null Yrs of Exp, ... -RECORD 17----- Title | Fashion Designer Company | Gemini Readymade ... Location | Maadi Type | Part Time Level | Freelance / Project YearsExp | 0 Country | Cairo Skills | Adobe Photoshop, ... -RECORD 18----- Title | Digital Marketing... Company | IBE Pharma Location | Nasr City Type | Full Time Level | Entry Level YearsExp | 0 Country | Cairo Skills | Digital Marketing... -RECORD 19----- Title | Sales Accountant ... Company | EGIC Location | Beheira Type | Full Time Level | Entry Level YearsExp | 0 Country | Egypt Skills | Finance, Sales Ac... only showing top 20 rows

- 1 Years of Experiences

32°C Partly su... | ENG | 6:55 PM

localhost:8080/Wuzzuf/JobsByYears

Steps Recorder - Recording Now

Manager Company | Delta for housing... Location | 10th of Ramadan ... Type | Full Time Level | Manager YearsExp | 14 Country | Sharqia Skills | Accounting, Finan...

- 15 Years of Experiences

-RECORD 0----- Title | Administrative & ... Company | United Group For ... Location | Nasr City Type | Full Time Level | Manager YearsExp | 15 Country | Cairo Skills | Operations, Busin... -RECORD 1----- Title | Plant Manager Company | Confidential Location | 10th of Ramadan ... Type | Full Time Level | Manager YearsExp | 15 Country | Cairo Skills | Plant Management,... -RECORD 2----- Title | Audit Supervisor ... Company | Confidential Location | Riyadh Type | Full Time Level | Manager YearsExp | 15 Country | Saudi Arabia Skills | Accounting, Finan... -RECORD 3----- Title | Electromechanical... Company | Tabarak Holding Location | New Cairo Type | Full Time Level | Manager YearsExp | 15 Country | Cairo Skills | Electrical Engine... -RECORD 4----- Title | Design Manager Company | EGEC Location | Giza Type | Full Time Level | Manager YearsExp | 15 Country | Egypt Skills | Project Managemen... -RECORD 5----- Title | Marketing Manager Company | Tabarak Holding Location | New Cairo Type | Full Time Level | Manager YearsExp | 15 Country | Cairo Skills | Real Estate, Sale... -RECORD 6----- Title | Poultry Section Head Company | Confidential Location | Belbes Type | Full Time Level | Manager YearsExp | 15 Country | Sharqia Skills | Males Only, Chick... -RECORD 7----- Title | Medical Family PL... Company | John Snow InC Location | Alexandria Type | Freelance / Project Level | Senior Management YearsExp | 15 Country | Egypt Skills | Medical, Training... -RECORD 8----- Title | Software Developm... Company | Orient Egypt Location | Dokki Type | Full Time Level | Manager YearsExp | 15 Country | Giza Skills | Information Techn... -RECORD 9----- Title | Medical Family PL... Company | John Snow InC Location | Aswan Type | Freelance / Project Level | Senior Management YearsExp | 15 Country | Egypt Skills | Medical, Training... -RECORD 10----- Title | Chief Technology ... Company | Carina Wear Location | New Cairo Type | Full Time Level | Manager YearsExp | 15 Country | Cairo Skills | Information Techn... -RECORD 11----- Title | Planning & Follow... Company | Confidential Location | Maadi Type | Full Time Level | Manager YearsExp | 15 Country | Cairo Skills | Planning, Compute... -RECORD 12----- Title | Internal Audit Ch... Company | Egyptian Banks Co... Location | New Cairo Type | Full Time Level | Manager YearsExp | 15 Country | Cairo Skills | Finance, Micros... -RECORD 13----- Title | Research & Develo... Company | Confidential Location | Cairo Type | Full Time Level | Manager YearsExp | 15 Country | Egypt Skills | Market Research, ... -RECORD 14----- Title | Sales Director (S... Company | Confidential Location | Dokki Type | Full Time Level | Senior Management YearsExp | 15 Country | Giza Skills | Sales Skills, Sal... -RECORD 15----- Title | Finance Manager Company | Form Location | Maadi Type | Full Time Level | Manager YearsExp | 15 Country | Cairo Skills | Finance, Financia... -RECORD 16----- Title | Parent Relations ... Company | Confidential Location | New Cairo Type | Full Time Level | Manager YearsExp | 15 Country | Cairo Skills | Customer Service... -RECORD 17----- Title | Administration Ma... Company | Arabia Holding Location | Nozha Type | Full Time Level | Manager YearsExp | 15 Country | Cairo Skills | Administration, M... -RECORD 18----- Title | Commercial Direct... Company | El Batal Co. Location | Sheraton Type | Full Time Level | Manager YearsExp | 15 Country | Cairo Skills | Sales Skills, Rea... -RECORD 19----- Title | Financial Controller Company | Confidential Location | Basatin Type | Full Time Level | Manager YearsExp | 15 Country | Cairo Skills | Financial Managem... only showing top 20 rows

- 20 Years of Experiences

-RECORD 0----- Title | Project Manager (... Company | Alkhoryef Indust... Location | Mallawi Type | Full Time Level | Manager YearsExp | 20 Country | Miaya Skills | Maths, Project Ma... -RECORD 1----- Title | Senior Resident E... Company | Confidential Location | Alexandria Type | Full Time Level | Manager YearsExp | 20 Country | Egypt Skills | Civil Engineering... -RECORD 2----- Title | Project Manager Company | MAC EGYPT REAL ES... Location | 10th of Ramadan ... Type | Full Time Level | Manager YearsExp | 20 Country | Cairo Skills | Engineering, Cons...

Terminating Spark Session

