# Wuzzuf Data Exploration (2014-2015)

#### 1. Introduction

There are 2 files of data: Jobs Posts and Applications Samples (2014-2015). After checking the 2 files, I have found a messy columns, like City column, Experience Years, Job Description and Job Requirement. So, I will gather and clean the data to get perfect Insights, then save edited data to new csv files.

I have used jupyter to clean the data and you can find the code in this project in the github repository.

# 2. Data Cleaning

It will be 3 phases of data cleaning:

- First, fix the missing data in Currency and Payment Period Columns. I filled the missing data in Currency Column with 'Egyptian Pound' and for Payment Column with 'Per Month'
- Second, find the Duplicates data.
- Finally, Check data type of Columns and I have found that post\_date in Jobs Posts data and app\_date in Applications data are strings I converted them to datetime.
- City Column also needs cleaning, I thought a lot to find the best solution.
  - Finally, I decide to collect cities in groups like: Cairo\_gov, Giza, Delta, Abroad, Sinai, 10<sup>th</sup> of Ramadan city, 6<sup>th</sup> October City, Upper Egypt, Red Sea, Canal, West Egypt, All Egypt, other and Remote.
- Experience year, I have fixed it with regex, find all numbers and make new ranges: 0, 0-3, 0-5, 5-7, 8-10, 10-15, more than 15.
- Job Description and Job Requirement columns includes html tags, so want to only show the content without tags. So I will strip html from string using HTML parser.

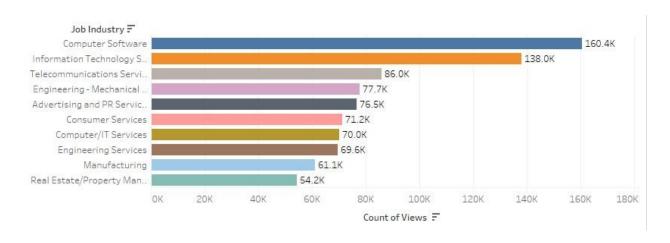
#### 3. Analyzing Data

Here's the forecast and trend line for Count of vacancies to know if the vacancies in the next years will increase or not.

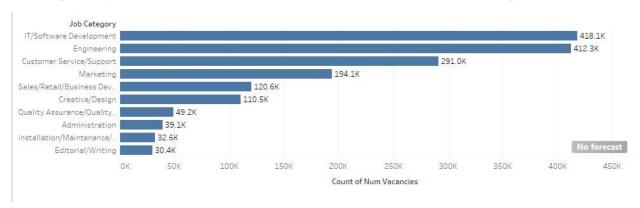
So, Trend line details is p-value: 0.0001 it's less than 0.05 And R squared:0.7, so it's good for both we can depend on this values.



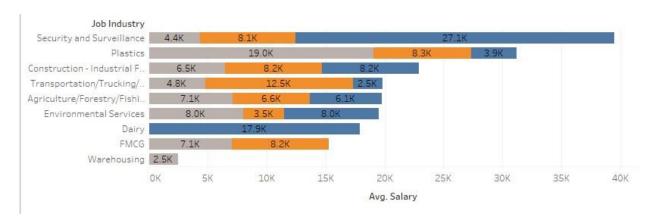
Here the Job Industry and count of views, here we could see the most job industries that has views: Computer Software.



# The top categories that has the most vacancies: It/Software Development

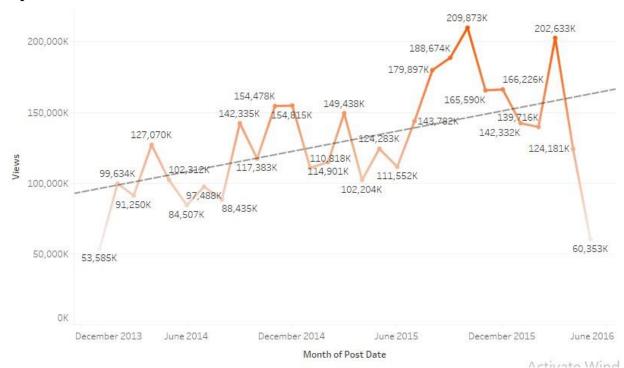


#### Job Industry Avg Salary per Years

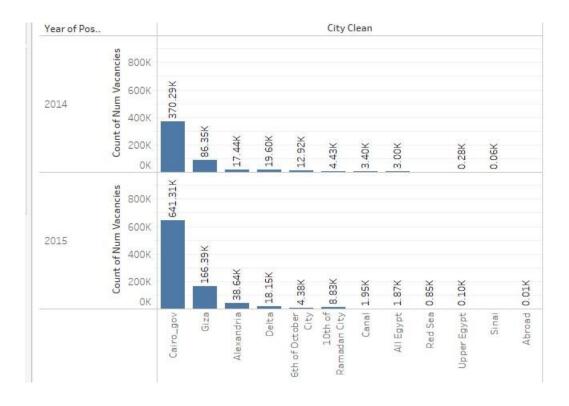


Trend line for the views per months

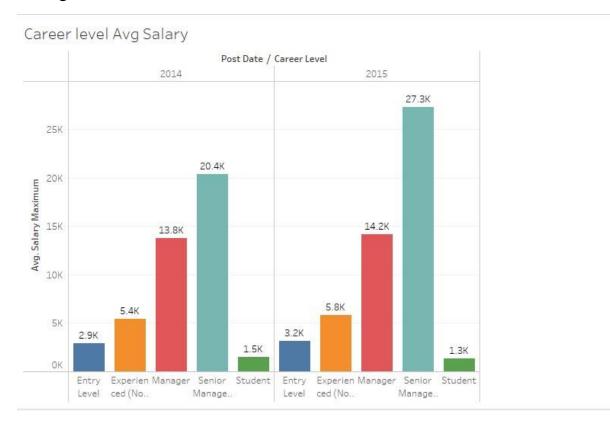
p-value: 0.003 r squared: 0.29



Count of Vacancies for cities per 2014-2015 We saw that highest number of vacancies was in Cairo then Giza

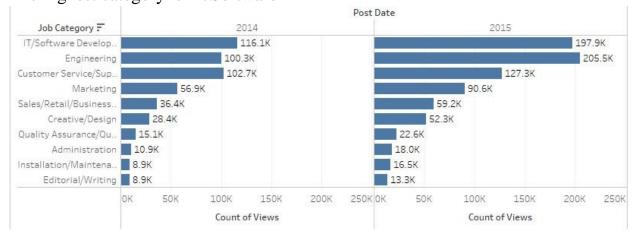


# Avg Salary for Career level the highest level is Senior in 2014-2015

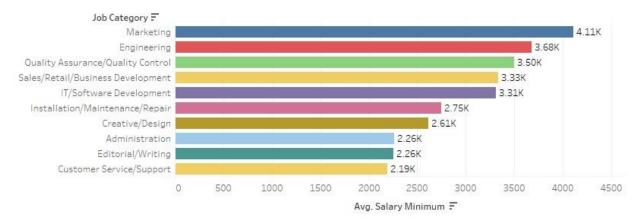


# Count of Views of job category, we can see that views increased from 2014 to 2015

The highest category is IT/Software



# Avg Min salary of Job Category: Marketing



#### Avg Max salary of Job Category: Marketing



# 4. Summary

- Number of Vacancies will increase for the next years will increase or not.
- The top categories that has the most vacancies: It/Software Development
- The Top cities of Vacancies are Cairo, Giza and Alex.
- Avg Salary for Career level, the highest level is Senior in 2014-2015
- Avg Max and Min salary of Job Category: Marketing