How to have the best DATA SCIENTIST -PROFILE -

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Problem & data

How we managed the data

01

Problem and data - 1

- 1 Exploring the data
- 2 Dropping rows with all **nulls** values
- 3 Cleaning **location** column
- 4 Creating **state and city** columns
- 5 Cleaning **Description** Column
- 6 Creating category Column

Creating category Column In [350]: df['position'] = [str(item) for item in df['description']] In [351]: category = [] for position in df['position']: if 'data science' in position.lower() or 'machine learning' in position.lower() or 'data scientist' in position.low category.append('Data Scientist') elif 'analyst' in position.lower() or 'analytics' in position.lower(): category.append('Data Analyst') elif 'artificial intelligence' in position.lower() or 'engineer' in position.lower() or 'ai' in position.lower(): category.append('Data Engineer') else: category.append('Other') In [352]: df['category'] = category In [353]: df.head() Out[353]: company description reviews location Development Director ALS Therapy Development Development Director ALS Therapy Development Data 1 Job Description "The road that leads to accomp... Job Description "The road that leads to accomp... Engineer Data 2 Growing company located in the Atlanta GA are... Xpert Staffing Growing company located in the Atlanta GA are... Scientist DEPARTMENT: Program OperationsPOSITION DEPARTMENT: Program OperationsPOSITION Data Operation HOPE Scientist DESCRIPTION The Emory University Department Data **Emory University** Atlanta Scientist

Problem and data - 2

- 7 Including **Tools** (skills_list) and **Skills** (soft_skills)
- 8 **Making column** for it
- 9 Same process for **education** and other data we needed

skills to includes

```
In [354]: # we will do r separately
skills_list = ['sql', 'tableau', 'oracle', 'qliksense',
    'python', 'hadoop', 'perl', 'java', 'c++', 'spark', 'kafka',
    'azure', 'spss', 'sas', 'excel', 'aws', 'big data', 'power bi']

soft_skills = ['statistics', 'mathematics', 'probability', 'machine learning',
    'data analysis', 'data visualization', 'modeling', 'deep learning',
    'a b testing', 'web scraping', 'neural network', 'interpersonal skills',
    'communication skills', 'artificial intelligence']
# crm, salesforce, ux, cloud
```

Columns for Skills

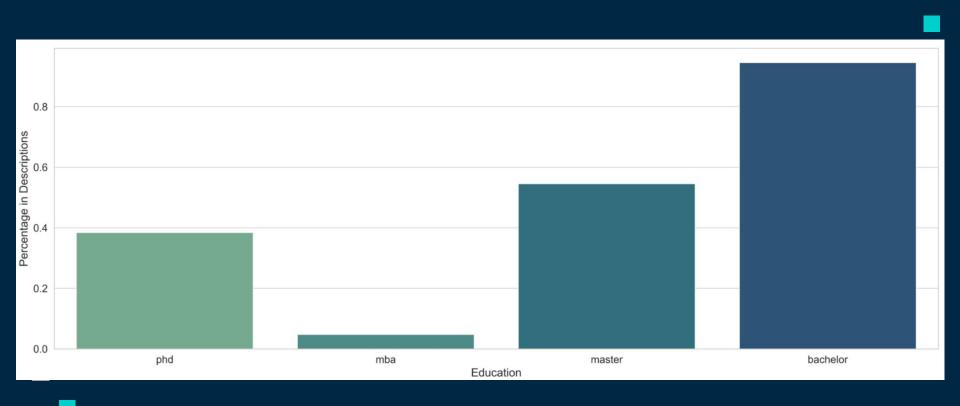
```
In [355]: for skill in skills_list:
    i = []
    for description in df['description']:
        if skill in description.lower():
            i.append(1)
        else:
            i.append(0)
    df[skill] = i
```

The perfect profile

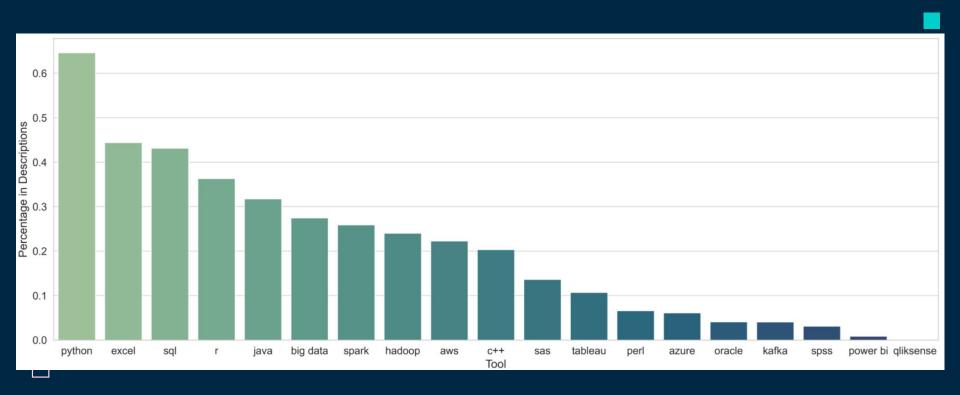
How to get the perfect profile ?



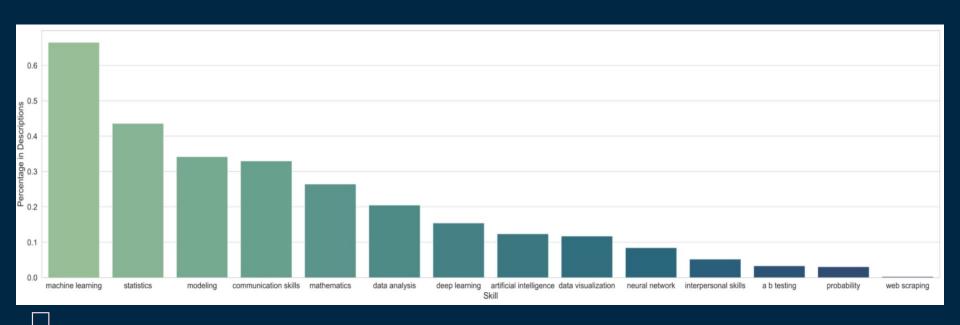
The perfect profile - Education



The perfect profile - Software



The perfect profile - Skills



How to be a crack! 03

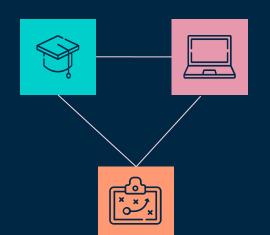
How to get the perfect profile?



Top profile of a data analyst



Bachelor - Master



Soft Skills

Machine Learning -Statistics - Modeling

Software

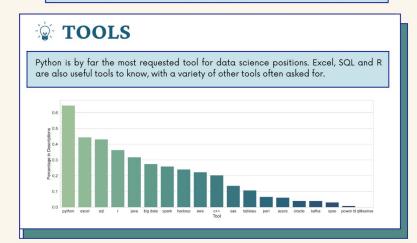
Python - SQL - R



HOW TO BE A 'CRACK' DATA SCIENTIST

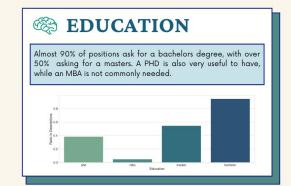


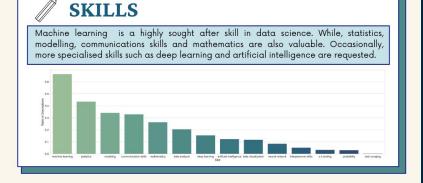
The Process: This data needed a lot of cleaning since the description column was particularly messy. We used a variety of string functions to achieve this, removing most of the punctuation to be able to perform searches.





Limitations: Not having access to date-time information for this data inhibits our ability to make predictions and leaves us unable to be sure it is representative over any length of time.





Do you have any questions? THANKS