# DATA CLEANING

**Entrepreneurial Competency in University Students** 

# Content

- 1- Cleaning the Data
- 2- Exporting the Data into CSV File
- 3- Conducting a query on mysql
- 4- Some Insight
- 5- Challenges

# Macro/ Micro Cleaning

## **Macro Level**

1- Look at the raw file for preliminary insight

```
2- Fix structural errors:
to lower letter=['TargetIndividualProject','Gender','City','Influ
enced', 'MentalDisorder', 'ReasonsForLack', 'ReasonsForLack']
for i in to lower letter:
    data[i]=data[i].str.lower()
b-
data.rename(columns={ 'Target-
ent competency':'TargetEntCompetency'}, inplace=True)
```

218 students Indian University

Sample description

16 variables

Education Sector TargetIndividual Project

Age

Gender

City

Perseverance

Influenced

Desire To TakeInitiative

Competitiveness

Self Reliance

Strong Need To Achieve

Self Confidence

Good Physical Health

Mental Disorder

**Key Traits** 

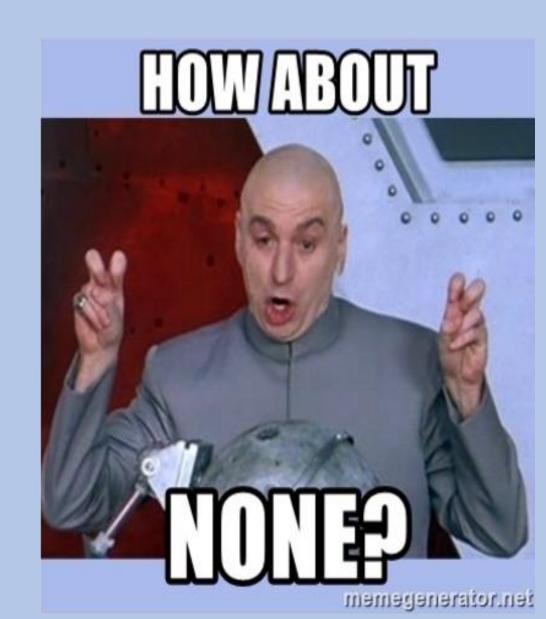
**Target Ent Competency** 



# Micro Level Cleaning

# **Look for Outlier**

Cliquez pour ajouter un texte



#### **Deal with missing Data**

- data.loc[data['ReasonsForLack'].isna()==True,'ReasonsForLack']='no reason given'
- data.loc[data['MentalDisorde r'].isna()==True,'MentalDisor der']='undisclosed
- data.loc[data['Age'].isna()== True,'Age']=round(data['Age'].mean())
- data['Age'].mean()

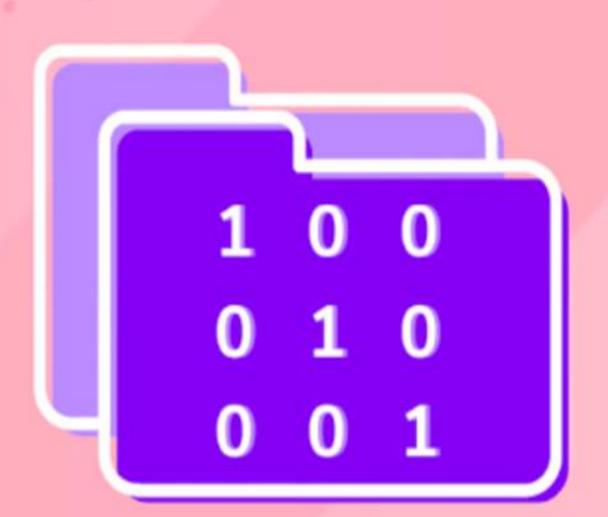


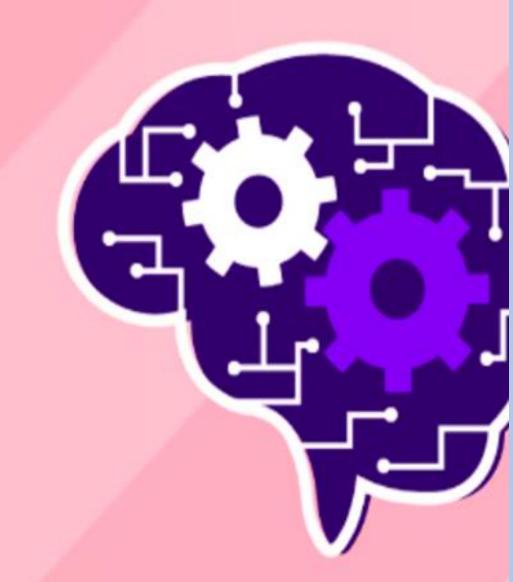
- #putting mean age to fill the empty age data
- data.loc[data['Age'].isna()==True,'A ge']=round(data['Age'].mean()) data['Age'].mean()
- #dropping unnecessary columns

data.drop(columns="ReasonsForLack
", inplace=True)

# Uploading data Into the computer

data.to\_csv(r'/Users/naitsaidifariza/Desktop/data\_cleaned.csv')





# **Get Dummies Encoder**

```
- pd.get_dummies(data["Gender"])
```

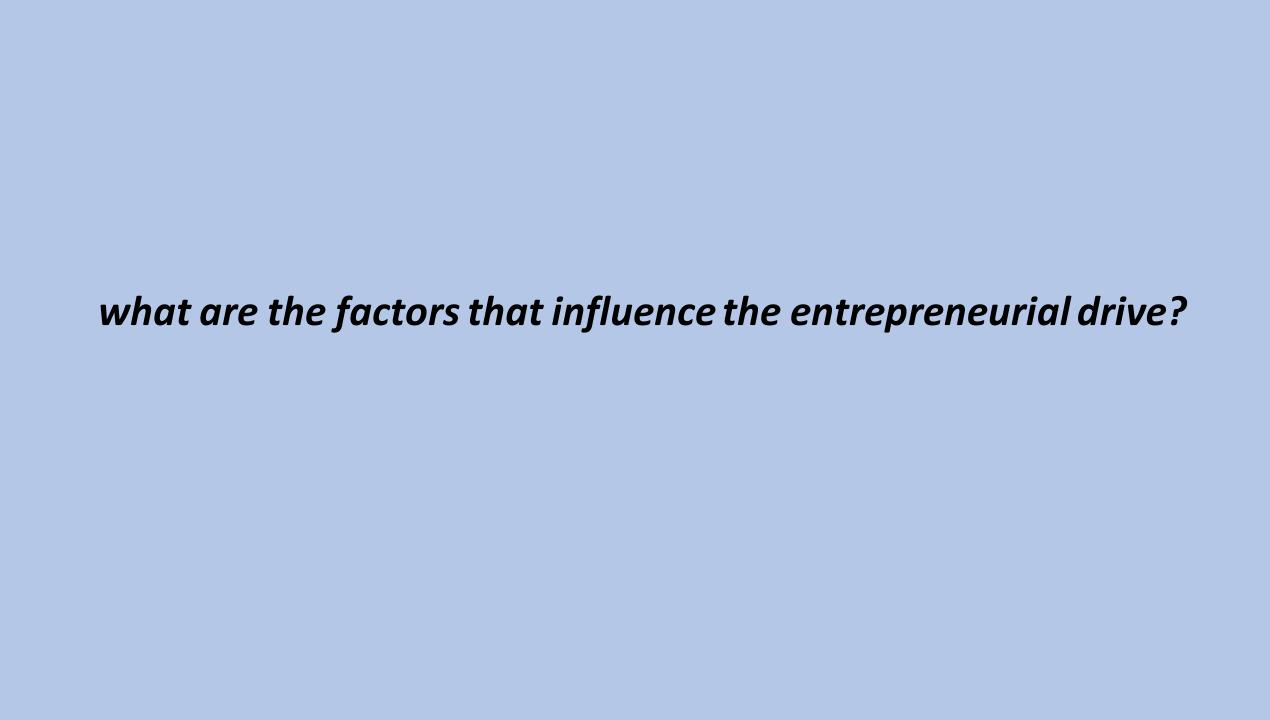
```
-pd.get_dummies(data["EducationSector"])
```

### SKlearn

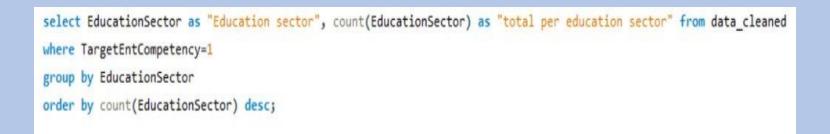
• From sklearn.preprocessing import LabelEncoder

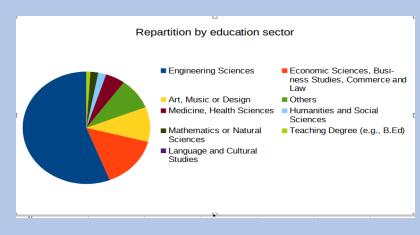
• City/ Influenced/ Target Individual Project/ Mental Disorder

Our Query



```
select EducationSector as "Education sector", round((count(EducationSector)/219)*100) as "% education sector" from data_cleaned
group by EducationSector
order by count(EducationSector)/219 desc;
```





```
select Gender, round((count(Gender)/57)*100) as "% female" from data_cleaned
where TargetEntCompetency=1 and Gender = "female";

select Gender, round((count(Gender)/162)*100) as "% male" from data_cleaned
where TargetEntCompetency=1 and Gender = "male";
```



45 % males

#### Physical and mental health

```
select MentalDisorder as "Mental disorder" , round((count(TargetEntCompetency)/219)*100) as "Total" from data_cleaned
where TargetEntCompetency=1
group by MentalDisorder;
```

```
select GoodPhysicalHealth as "Physical health" , round((count(GoodPhysicalHealth)/219)*100) as "Total" from data_cleaned
where TargetEntCompetency=1
group by GoodPhysicalHealth;
```

More than 50 % Good mental and physical health

## Key traits

```
select KeyTraits as "Key traits", count(KeyTraits) as "Total" from data_cleaned
where TargetEntCompetency=1
group by KeyTraits;

Positivity

Passion

Vision/ Work ethic
```

