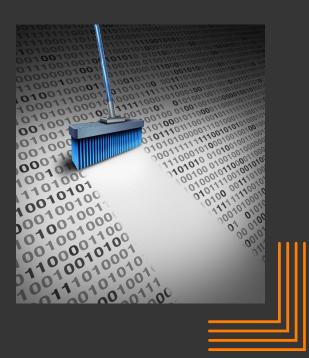




## What the data is about

ANALYST MEETING ANALYST MEETING ANALYST MEETING

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RECAP step by step



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# Entrepreneurial competency in university students"

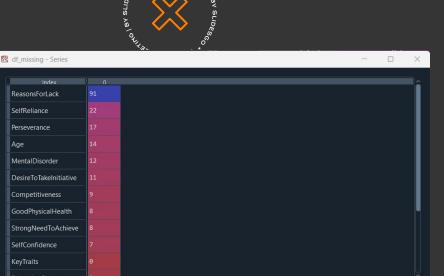


4	EducationSector	Target IndividualProject  Age	Gender	- City -	Influenced	Perseverance -	DesireToTakeInitiative
190	Economic Sciences, Business Studies, Commerce and Law	Yes	20 Female	Yes	No	4	
191	Economic Sciences, Business Studies, Commerce and Law	No	18 Female	Yes	No	4	
192	Engineering Sciences	No	17 Male	No	Yes	3	
193	Others	Yes	21 Female	Yes	No	4	
194	Others	Yes	19 Female	No	Yes	4	
195	Art, Music or Design	Yes	20 Male	Yes	Yes	2	
196	Engineering Sciences	No	20 Male	Yes	Yes	4	
197	Engineering Sciences	No	19 Male	Yes	yes	5	
198	Engineering Sciences	Yes	19 Female	Yes	No	3	
199	Engineering Sciences	Yes	20 Male	Yes	Yes	3	
200	Art, Music or Design	Yes	19 Male	Yes	Yes		
201	Engineering Sciences	No	19 Male	Yes	No		
202	Engineering Sciences	Yes	20 Male	Yes	yes		
203	Engineering Sciences	No	19 Male	no	Yes		
204	Mathematics or Natural Sciences	Yes	17 Male	Yes	Yes		
205	Art, Music or Design	Yes	20 Female	Yes	Yes		
206	Engineering Sciences	Yes	20 Female	Yes	unknown		
207	Engineering Sciences	Yes	20 Male	Yes	Yes	4	
208	Engineering Sciences	Yes	21 Male	Yes	Yes		
209	Engineering Sciences	Yes	21 Female	No	No 10		
210	Engineering Sciences	No	20 Male	Yes (	N <sub>1</sub> ←		
211	Economic Sciences, Business Studies, Commerce and Law	Yes	19 Male	Yes	No		
212	Engineering Sciences	Yes	20 Female	Yes	Yes		
213	Fconomic Sciences, Business Studies, Commerce and Law	No	19 Male	Yes	Yes		



66

**Entrepreneurial** competency in university students"



**\*\*\*\*** 

Save and Close Close

\* BUSINESS MEER

SelfReliance

Perseverance

KevTraits

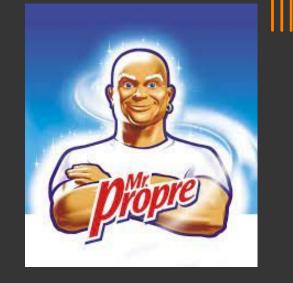
Format Resize 🗹 Background color 🗹 Column min/max

#### Database informations

17 columns for219 rows

- 9 numerical columns

- 8 non numerical values





### 02 DATA CLEANING

MEETING



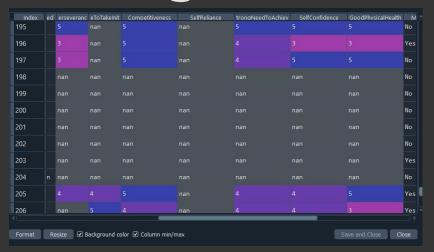
#### missing values

#### Calculate the number of missing values.

```
df missing = data.isna().sum().sort values(ascending=False)
   df missing
 ✓ 0.7s
ReasonsForLack
SelfReliance
Perseverance
Age
                            14
MentalDisorder
DesireToTakeInitiative
Competitiveness
GoodPhysicalHealth
StrongNeedToAchieve
SelfConfidence
KevTraits
EducationSector
Target IndividualProject
Influenced
City
Gender
Target-ent competency
dtype: int64
```



#### missing values



#### Drop all the rows with more than 3 missing values

```
data= data[data.isnull().sum(axis=1) < 3]

$\sigma 0.5s$</pre>
```



#### missing values

```
modepers = data['Perseverance'].mode()
data['Perseverance'] = np.where(data['Perseverance'].isnull(), modepers , data['Perseverance'])
```

✓ 0.8s



#### check inconsistency

#### display the unique values of each column

```
for i in data.columns:
       print(data[i].unique())
 ✓ 0.6s
Output exceeds the size limit. Open the full output data in a text editor
['Engineering Sciences' 'Others'
 'Economic Sciences, Business Studies, Commerce and Law'
 'Art, Music or Design' 'Humanities and Social Sciences'
 'Medicine, Health Sciences' 'Teaching Degree (e.g., B.Ed)'
 'Mathematics or Natural Sciences' 'Language and Cultural Studies']
['No' 'Yes']
[19. 22. 18. 20. 17. 21. 23. 26. 24. nan 25.]
['Male' 'Female' 'male']
['Yes' 'No' 'unknown' 'no']
['No' 'Yes' 'yes' 'unknown']
[ 2. 3. 4. 1. 5. nan]
[ 2. 3. 4. 1. 5. nan]
[ 3. 4. 2. 5. 1. nan]
[ 3. 4. 1. 2. 5. nan]
[ 2. 4. 3. 5. 1. nan]
[ 2. 3. 4. 1. 5. nan]
[ 3. 4. 2. 1. 5. nan]
['Yes' 'No' nan]
['Passion' 'Vision' 'Rrresilience' 'Positivity' 'Work Ethic' 'Resilience'
 'passion']
```



#### check inconsistency

```
#there is "male" in lowercase in the column "gender"
   data['Gender'] = data['Gender'].str.capitalize()
 ✓ 0.3s
C:\Users\kyrie\AppData\Local\Temp\ipykernel 14908\2188931611.py:2: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row indexer,col indexer] = value instead
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user guide/ir
 data['Gender'] = data['Gender'].str.capitalize()
   #data['KeyTraits'] = data['KeyTraits'].str.capitalize()
   data['KeyTraits'] = np.where(data['KeyTraits'] == "passion", "Passion", data['KeyTraits'])
 ✓ 0.4s
```



#### check Duplicates

#### removing duplicates

```
print(data.duplicated())
✓ 0.4s
      False
      False
      False
      False
      False
214
      False
      False
215
      False
216
      False
217
      False
218
Length: 203, dtype: bool
   data.drop duplicates(inplace = True)
 ✓ 0.4s
```



## VSCODE recap step by step







# 03 DATA ANALYSIS

MEETING



#### Improvement axe

Creation of a composite indicator with all the column to define what are the most 'entrepreneurial ready' profiles









myloview