import numpy as np import pandas as pd

from google.colab import files uploaded = files.upload()

Choose Files StudentsPe...ceTest1.xlsx

• StudentsPerformanceTest1.xlsx(application/vnd.openxmlformatsofficedocument.spreadsheetml.sheet) - 9301 bytes, last modified: 2/14/2023 - 100% done Caving CtudenteDenformanceTect1 vlev to CtudenteDenformanceTect1 vlev

df = pd.read_excel('StudentsPerformanceTest1.xlsx')

₽		gender	math score	reading score	writing score	Placement Score	placement offer count	Region
	0	female	72	72	74.0	78.0	1	Pune
	1	female	69	90	88.0	NaN	2	na
	2	female	90	95	93.0	74.0	2	Nashik
	3	male	47	57	NaN	78.0	1	Na
	4	male	na	78	75.0	81.0	3	Pune
	5	female	71	Na	78.0	70.0	4	na
	6	male	12	44	52.0	12.0	2	Nashik
	7	male	NaN	65	67.0	49.0	1	Pune
	8	male	5	77	89.0	55.0	0	NaN

df.isnull()

	gender	math score	reading score	writing score	Placement Score	placement offer count	Region	è
0	False	False	False	False	False	False	False	
1	False	False	False	False	True	False	False	
2	False	False	False	False	False	False	False	
3	False	False	False	True	False	False	False	
4	False	False	False	False	False	False	False	
5	False	False	False	False	False	False	False	
6	False	False	False	False	False	False	False	
7	False	True	False	False	False	False	False	
8	False	False	False	False	False	False	True	

df.isnull().sum()

gender math score 1 reading score 0 writing score 1 Placement Score 1 placement offer count 0 Region dtype: int64

df.isna().sum()

gender math score 1 reading score 0 writing score 1 Placement Score 1 placement offer count 0 Region dtype: int64

df.mean()

Placement Score 62.125000 placement offer count 1.777778 dtype: float64

df['writing score'].fillna(77.000000,axis=0,inplace=True)

df['Placement Score'].fillna(62.125000,axis=0,inplace=True)

df

	gender	math score	reading score	writing score	Placement Score	placement offer count	Region	1
0	female	72	72	74.0	78.000	1	Pune	
1	female	69	90	88.0	62.125	2	na	
2	female	90	95	93.0	74.000	2	Nashik	
3	male	47	57	77.0	78.000	1	Na	
4	male	na	78	75.0	81.000	3	Pune	
5	female	71	Na	78.0	70.000	4	na	
6	male	12	44	52.0	12.000	2	Nashik	
7	male	NaN	65	67.0	49.000	1	Pune	
8	male	5	77	89.0	55.000	0	NaN	

df['placement offer count'].fillna(1.777778,axis=0,inplace=True)

df

	gender	math score	reading score	writing score	Placement Score	placement offer count	Region
0	female	72	72	74.0	78.000	1	Pune
1	female	69	90	88.0	62.125	2	na
2	female	90	95	93.0	74.000	2	Nashik
3	male	47	57	77.0	78.000	1	Na
4	male	na	78	75.0	81.000	3	Pune
5	female	71	Na	78.0	70.000	4	na
6	male	12	44	52.0	12.000	2	Nashik
7	male	NaN	65	67.0	49.000	1	Pune
8	male	5	77	89.0	55.000	0	NaN

df.drop('Region',axis=1,inplace=True)

df

	gender	math score	reading score	writing score	Placement Score	placement offer count
0	female	72	72	74.0	78.000	1
1	female	69	90	88.0	62.125	2
2	female	90	95	93.0	74.000	2
3	male	47	57	77.0	78.000	1
4	male	na	78	75.0	81.000	3
5	female	71	Na	78.0	70.000	4
6	male	12	44	52.0	12.000	2
7	male	NaN	65	67.0	49.000	1
8	male	5	77	89.0	55.000	0

df2 = df.drop('gender',axis=1)

df2

	reading score	writing score	Placement Score	placement offer count
0	72	74.0	78.000	1
1	90	88.0	62.125	2
2	95	93.0	74.000	2
3	57	77.0	78.000	1
4	78	75.0	81.000	3
5	Na	78.0	70.000	4
6	44	52.0	12.000	2
7	65	67.0	49.000	1
3	77	89.0	55.000	0

df2.to_csv('raw_data.csv',index=False)