- 1. Import all python libraries
- 2. Load Dataset (.csv file)
- 3. perform describe(), info(), isnull() functions
- 4. Remove all Null values (Data Cleaning)
- 5. Type conversion
- 6. Turn catagorical variable into quantitative variable

import pandas as pd #To perform the operations on tabular dataset import numpy as np #To perform mathematical operations. ex: Operations on Array

df = pd.read_csv("/content/Academic-Student.csv")
df

9		rollno	marks	gender	age	phd
	0	1	22.0	0	22.0	yes
	1	2	45.0	0	23.0	no
	2	3	66.0	0	NaN	no
	3	4	77.0	0	34.0	NaN
	4	5	33.0	0	22.0	no
	95	96	15.0	0	23.0	yes
	96	97	20.0	1	22.0	no
	97	98	30.0	1	21.0	NaN
	98	99	30.0	1	21.0	no
	99	100	20.0	1	22.0	yes

100 rows × 5 columns

df.head()

	rollno	marks	gender	age	phd
0	1	22.0	0	22.0	yes
1	2	45.0	0	23.0	no
2	3	66.0	0	NaN	no
3	4	77.0	0	34.0	NaN
4	5	33.0	0	22.0	no

df.tail()

	rollno	marks	gender	age	phd
95	96	15.0	0	23.0	yes
96	97	20.0	1	22.0	no
97	98	30.0	1	21.0	NaN
98	99	30.0	1	21.0	no
99	100	20.0	1	22.0	yes

df.describe()

rollno gender marks age df.isnull() rollno marks gender age phd False 2 False True False False False False False True 4 False False False False False 95 False False False False False False False 96 False False False False False True False False 98 False 99 100 rows × 5 columns df.isnull().sum() rollno 0 marks 0 gender 0 age 5 phd 8 dtype: int64 df.dropna(inplace=True) df.isnull().sum() rollno marks 0 gender 0 age 0 phd 0 dtype: int64 df.info() <class 'pandas.core.frame.DataFrame'> Int64Index: 87 entries, 0 to 99 Data columns (total 5 columns):
Column Non-Null Count Dtype 0 rollno 87 non-null int64 1 marks 87 non-null floate float64 2 gender 87 non-null 3 age 87 non-null int64 age 87 non-null float64 87 non-null object dtypes: float64(2), int64(2), object(1) memory usage: 4.1+ KB df['marks'] = df['marks'].astype('int') df['marks'].dtypes dtype('int64') df['age'] = df['age'].astype('int') df['age'].dtypes dtype('int64') df["phd"] = df["phd"].replace('yes', 1) df['phd'] = df['phd'].replace('no', 0) print(df)

rollno marks gender age phd

22

45

33

22

1

5

0

1

4

0 22 0 23 0 22 10 21

1

0

0

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