DATA WRANGLING

Data Wrangling is a crucial topic for Data Science and Data Analysis. Pandas Fromework of python is used for Data Wrangling.

Data wrangling involves processing the data in various formals like - merging, grouping, concaterally etc. for the purpose of analyzing or getting them ready to be used with another set of data.

Python Ins built - in features to apply these wrongling methode to various data set to achieve the analytical goal.

Dola wrompling in Python deals with the Solow functionalities;

1. Data exploration: In this process, she data is studied, analyzed, and under stood by visualizing representations of data.

2. Dealing with missing values? Most of the dodssets having a vost amount of data contain missing values of NoN, they are needed to be taken care of by replaing them with mean, mode, the most frequent value of the column, or simply by dropping the now I having a NoN value.

3. Reshaping data: In this process, lata is manipulated according to the requirements, ruhere new data com be added or pre-existing data com be modified.

4. Filtering data? some times datasets are composter of unwanted rows or columns which are required to be removed or filtered.

Data exploration in Pethon impost pandas as pol data = { ! Name !: ['Priya', | Riya', Ishinangi, Amit, Weld] 'Age!; [20,21,22,23,24], Crender: [+1,+1,+1,M1,+], Marks': [90,76, 'NaW, 84, 1NaN]} df = pd. Data Forme (data) 00 7 Desput cronger Marke Age Donne Priya 20 76 Ri49 21 NaN Shivargi 22 F Amit 84 M 23 Nall Neha Dealing with missing data: people poopna (quesot = / weight - kg/1) papple. Hillna (3 "height kg"; 1003) df1=df.copy() df I. dropma (subset = 'Chenderi') output Crendon Marke Nome 90.0 NaN 22 760 NaN Shiverge 0- 58 Neha off I, filling (3 Crendow): 1003) Age Crender Nome Mouro 90.0 20 Jai 94.0 20 100 Pozya NaN Riya 21

Priti

Shivongi

24

Nehen

76.0

Nan

8710

Thering data

df = df [df ['Marks'] > 80] . copy!)

df . drop ('Age!, axis=1, u'mplace = True)

df

Output

Nome crender Hooks

O Priya f 90
3 Shivangi f 8012
3 Amit M 84
4 Neha f 8012