Handling Missing Data

Missing data can lead to bias and inaccurate result in the model.

- It is important to address missing data by either droping the missing observation or imputing the missing values using mean/median/mode.
- In python this can be done using methods of pandas library

```
DataFrame_name.fillna()
DataFrame_name.dropna()
```

- There are multiple reasone for the missing value in dataset
 - · improper maintenance of data
 - no proper formate define for the data
 - human error
 - user not given information intentionally

Ways to Handle it

• In imputing the missing values the above mention methods are used mostly in various ways. Some ways are mention below:

```
DataFrame_name.fillna(0) # missing/Nan values are replaced with 0
DataFrame_name.fillna( ) # any object or number or any series of number can be used to replace the missing value

DataFrame_name.fillna(method="ffill") # for filling the next value ## mostly used to handle the missing data of date formate

DataFrame_name.fillna(method="bfill",inplace=True) # for filling the previous value
# inplace to fill in-place, no new column will created
```