kaviyadevi 20106064

Data cleaning and preprocessing

importing libraries

In [1]: import numpy as np
import pandas as pd

importing dataset

In [3]: data=pd.read_csv(r"C:\Users\user\Downloads\8_BreastCancerPrediction - 8_BreastCan
data

| \sim | | _ | |
|--------|-----|----------|------|
| O | 111 | т. | |
| v | u | - | |
| | | | |

| | id | diagnosis | radius_mean | texture_mean | perimeter_mean | area_mean | smoothness_m |
|-----|----------|-----------|-------------|--------------|----------------|-----------|--------------|
| 0 | 842302 | М | 17.99 | 10.38 | 122.80 | 1001.0 | 0.11 |
| 1 | 842517 | М | 20.57 | 17.77 | 132.90 | 1326.0 | 0.08 |
| 2 | 84300903 | М | 19.69 | 21.25 | 130.00 | 1203.0 | 0.10 |
| 3 | 84348301 | М | 11.42 | 20.38 | 77.58 | 386.1 | 0.14 |
| 4 | 84358402 | М | 20.29 | 14.34 | 135.10 | 1297.0 | 0.10 |
| | | | | | | | |
| 564 | 926424 | М | 21.56 | 22.39 | 142.00 | 1479.0 | 0.11 |
| 565 | 926682 | М | 20.13 | 28.25 | 131.20 | 1261.0 | 0.09 |
| 566 | 926954 | М | 16.60 | 28.08 | 108.30 | 858.1 | 0.08 |
| 567 | 927241 | М | 20.60 | 29.33 | 140.10 | 1265.0 | 0.11 |
| 568 | 92751 | В | 7.76 | 24.54 | 47.92 | 181.0 | 0.05 |
| | | | | | | | |

To print initial rows

569 rows × 32 columns