Breast Cancer Data Set

Naïve Bayes

Data Discription

Data columns (total 31 columns):

diagnosis 569 non-null object

radius\_mean 569 non-null float64

texture\_mean 569 non-null float64

perimeter\_mean 569 non-null float64

area\_mean 569 non-null float64

smoothness\_mean 569 non-null float64

compactness\_mean 569 non-null float64

concavity\_mean 569 non-null float64

concave points\_mean 569 non-null float64

symmetry\_mean 569 non-null float64

fractal\_dimension\_mean 569 non-null float64

radius\_se 569 non-null float64

texture\_se 569 non-null float64

perimeter\_se 569 non-null float64

area\_se 569 non-null float64

smoothness\_se 569 non-null float64

compactness\_se 569 non-null float64

concavity\_se 569 non-null float64

concave points\_se 569 non-null float64

symmetry\_se 569 non-null float64

fractal\_dimension\_se 569 non-null float64

radius\_worst 569 non-null float64

texture\_worst 569 non-null float64

perimeter\_worst 569 non-null float64

area\_worst 569 non-null float64

smoothness\_worst 569 non-null float64

compactness\_worst 569 non-null float64

concavity\_worst 569 non-null float64

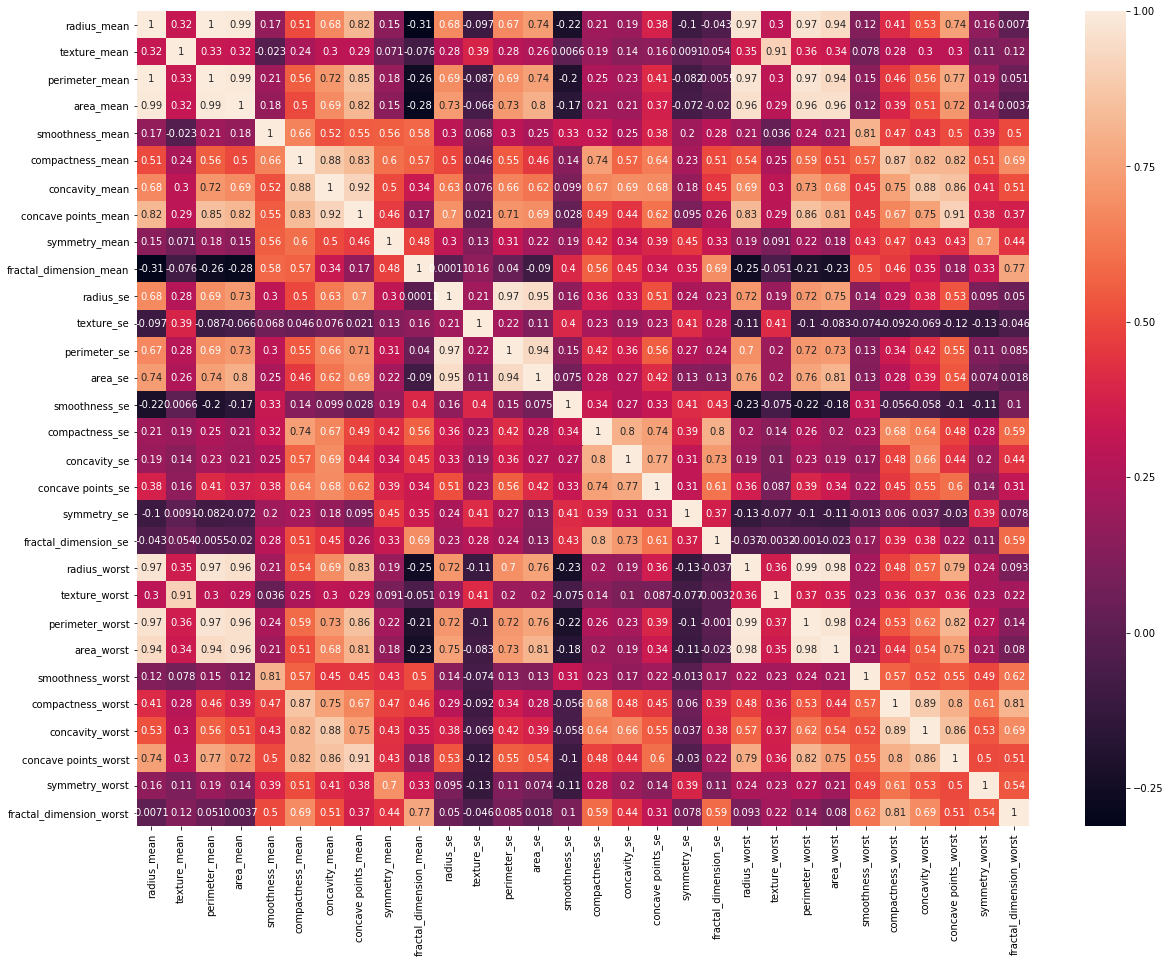
concave points\_worst 569 non-null float64

symmetry\_worst 569 non-null float64

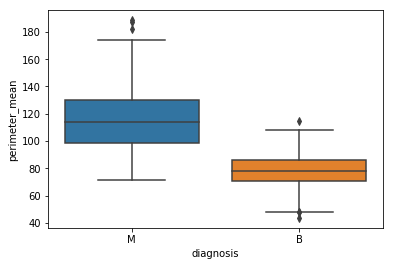
fractal\_dimension\_worst 569 non-null float64

dtypes: float64(30), object(1)

Heat Map



Box Plot



Accuracy 92.39766081871345

Classification report

precision recall f1-score support

B 0.93 0.95 0.94 105

M 0.92 0.88 0.90 66

avg / total 0.92 0.92 0.92 171

SVM

Accuracy=94.15204678362574

classification report

|  |
| --- |
|  |
| precision recall f1-score support |
|  |
| B 0.94 0.97 0.95 105 |
| M 0.95 0.89 0.92 66 |
|  |
| avg / total 0.94 0.94 0.94 171 |

classification\_report