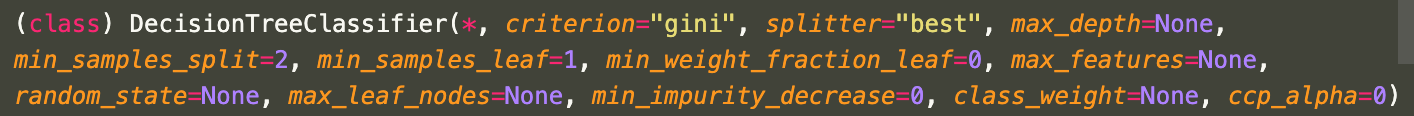
Decision Tree Classifier



Chart

Description automatically generated with medium confidence

Graphical user interface

Description automatically generated with medium confidence

Random Forest Classifier

Text

Description automatically generated

Graphical user interface, chart, application, line chart

Description automatically generated

|  |  |  |
| --- | --- | --- |
| N estimators | Avg accuracy | Std Accuracy |
| 50 | 0.94563758 | 0.01649424 |
| 100 | 0.95033557 | 0.01189265 |
| 150 | 0.95302013 | 0.0171108 |
| 200 | 0.95704698 | 0.01818284 |
| 250 | 0.95704698 | 0.01565356 |
| 300 | 0.9590604 | 0.0167651 |
| 350 | 0.96107383 | 0.0171896 |
| 400 | 0.95838926 | 0.01509694 |
| 450 | 0.95369128 | 0.01550902 |
| 500 | 0.9590604 | 0.01565356 |
| 550 | 0.9557047 | 0.01090475 |
| 600 | 0.96107383 | 0.01211777 |
| 650 | 0.95838926 | 0.01301391 |
| 700 | 0.95973154 | 0.01470396 |
| 750 | 0.95771812 | 0.01596695 |
| 800 | 0.95704698 | 0.01867172 |
| 850 | 0.95838926 | 0.01448794 |
| 900 | 0.96174497 | 0.01679194 |
| 950 | 0.95838926 | 0.01448794 |
| 1000 | 0.9590604 | 0.01607939 |

Gradient Boosting

Graphical user interface, chart, application, line chart

Description automatically generated

A picture containing table

Description automatically generated

Using Random Forest Classifier was the most accurate so therefore for my final part I went with the random forest classifier.

