Results :

The code I have written has given the following results:

1. Done with classification, now you may calculate the accuracy

Number of Esemble Trees / Bags larned : 10

depth trained in each tree is : 3

Tota tested records are : 2125

1593True Positive

0 True Neg

531 False Positive

0 Fal Neg

Accuracy for the Bagging Model is :0.75

So the accuracy is : 75.0%

2.

Done with classification, now you may calculate the accuracy

Number of Esemble Trees / Bags larned : 10

depth trained in each tree is : 5

Tota tested records are : 2125

1593 True Positive

0 True Neg

531 False Positive

0 Fal Neg

Accuracy for the Bagging Model is :0.75

So the accuracy is : 75.0%

We are creating these any weak classifiers : 10

3780Sampled data size

3780Sampled data size

3780Sampled data size

3780Sampled data size

3780Sampled data size

3780Sampled data size

3780Sampled data size

3780Sampled data size

3780Sampled data size

3780Sampled data size

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* - 0 - \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OnColumn - [99]: Check For - [0] - Meets condtion ?

\*\*If True ---> OnColumn - [92]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> Class Type : [1] is : [115] In number!!

\*\*\*\*\*\*If False ---> Class Type : [0] is : [1518] In number!!

\*\*If False ---> OnColumn - [36]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> OnColumn - [27]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*If True ---> OnColumn - [50]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [1] is : [64] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If False ---> OnColumn - [48]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [0] is : [190] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*If False ---> Class Type : [1] is : [5] In number!!

\*\*\*\*\*\*\*\*\*\*If False ---> Class Type : [1] is : [170] In number!!

\*\*\*\*\*\*If False ---> Class Type : [1] is : [1718] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* - 1 - \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OnColumn - [99]: Check For - [0] - Meets condtion ?

\*\*If True ---> OnColumn - [92]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> Class Type : [1] is : [145] In number!!

\*\*\*\*\*\*If False ---> Class Type : [0] is : [1483] In number!!

\*\*If False ---> OnColumn - [36]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> OnColumn - [27]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*If True ---> OnColumn - [50]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [1] is : [53] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If False ---> OnColumn - [8]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [0] is : [194] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*If False ---> Class Type : [1] is : [3] In number!!

\*\*\*\*\*\*\*\*\*\*If False ---> Class Type : [1] is : [149] In number!!

\*\*\*\*\*\*If False ---> Class Type : [1] is : [1753] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* - 2 - \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OnColumn - [99]: Check For - [0] - Meets condtion ?

\*\*If True ---> OnColumn - [92]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> Class Type : [1] is : [118] In number!!

\*\*\*\*\*\*If False ---> Class Type : [0] is : [1486] In number!!

\*\*If False ---> OnColumn - [22]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> OnColumn - [55]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [1] is : [1865] In number!!

\*\*\*\*\*\*\*\*\*\*If False ---> OnColumn - [6]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [1] is : [163] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If False ---> Class Type : [0] is : [40] In number!!

\*\*\*\*\*\*If False ---> Class Type : [0] is : [108] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* - 3 - \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OnColumn - [99]: Check For - [0] - Meets condtion ?

\*\*If True ---> OnColumn - [92]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> Class Type : [1] is : [116] In number!!

\*\*\*\*\*\*If False ---> Class Type : [0] is : [1488] In number!!

\*\*If False ---> OnColumn - [22]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> OnColumn - [55]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [1] is : [1830] In number!!

\*\*\*\*\*\*\*\*\*\*If False ---> OnColumn - [6]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [1] is : [152] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If False ---> Class Type : [0] is : [61] In number!!

\*\*\*\*\*\*If False ---> Class Type : [0] is : [133] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* - 4 - \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OnColumn - [99]: Check For - [0] - Meets condtion ?

\*\*If True ---> OnColumn - [92]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> Class Type : [1] is : [127] In number!!

\*\*\*\*\*\*If False ---> Class Type : [0] is : [1528] In number!!

\*\*If False ---> OnColumn - [22]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> OnColumn - [55]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [1] is : [1788] In number!!

\*\*\*\*\*\*\*\*\*\*If False ---> OnColumn - [6]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [1] is : [148] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If False ---> Class Type : [0] is : [63] In number!!

\*\*\*\*\*\*If False ---> Class Type : [0] is : [126] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* - 5 - \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OnColumn - [99]: Check For - [0] - Meets condtion ?

\*\*If True ---> OnColumn - [92]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> Class Type : [1] is : [126] In number!!

\*\*\*\*\*\*If False ---> Class Type : [0] is : [1502] In number!!

\*\*If False ---> OnColumn - [22]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> OnColumn - [121]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [1] is : [1827] In number!!

\*\*\*\*\*\*\*\*\*\*If False ---> OnColumn - [6]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [1] is : [149] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If False ---> Class Type : [0] is : [55] In number!!

\*\*\*\*\*\*If False ---> Class Type : [0] is : [121] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* - 6 - \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OnColumn - [99]: Check For - [0] - Meets condtion ?

\*\*If True ---> OnColumn - [92]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> Class Type : [1] is : [125] In number!!

\*\*\*\*\*\*If False ---> Class Type : [0] is : [1475] In number!!

\*\*If False ---> OnColumn - [22]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> OnColumn - [55]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [1] is : [1822] In number!!

\*\*\*\*\*\*\*\*\*\*If False ---> OnColumn - [6]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [1] is : [173] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If False ---> Class Type : [0] is : [56] In number!!

\*\*\*\*\*\*If False ---> Class Type : [0] is : [129] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* - 7 - \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OnColumn - [99]: Check For - [0] - Meets condtion ?

\*\*If True ---> OnColumn - [92]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> Class Type : [1] is : [128] In number!!

\*\*\*\*\*\*If False ---> Class Type : [0] is : [1471] In number!!

\*\*If False ---> OnColumn - [22]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> OnColumn - [121]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [1] is : [1824] In number!!

\*\*\*\*\*\*\*\*\*\*If False ---> OnColumn - [6]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [1] is : [179] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If False ---> Class Type : [0] is : [52] In number!!

\*\*\*\*\*\*If False ---> Class Type : [0] is : [126] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* - 8 - \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OnColumn - [99]: Check For - [0] - Meets condtion ?

\*\*If True ---> OnColumn - [92]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> Class Type : [1] is : [139] In number!!

\*\*\*\*\*\*If False ---> Class Type : [0] is : [1450] In number!!

\*\*If False ---> OnColumn - [22]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> OnColumn - [121]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [1] is : [1839] In number!!

\*\*\*\*\*\*\*\*\*\*If False ---> OnColumn - [6]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [1] is : [169] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If False ---> Class Type : [0] is : [63] In number!!

\*\*\*\*\*\*If False ---> Class Type : [0] is : [120] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* - 9 - \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

OnColumn - [99]: Check For - [0] - Meets condtion ?

\*\*If True ---> OnColumn - [92]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> Class Type : [1] is : [131] In number!!

\*\*\*\*\*\*If False ---> Class Type : [0] is : [1444] In number!!

\*\*If False ---> OnColumn - [22]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*If True ---> OnColumn - [55]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [1] is : [1832] In number!!

\*\*\*\*\*\*\*\*\*\*If False ---> OnColumn - [6]: Check For - [0] - Meets condtion ?

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If True ---> Class Type : [1] is : [185] In number!!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*If False ---> Class Type : [0] is : [67] In number!!

\*\*\*\*\*\*If False ---> Class Type : [0] is : [121] In number!!

Going to check the classification accuracy after ensembling

$$$$$$$$$$$$$$$$$$$$ - classified on Moddel 0- $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

$$$$$$$$$$$$$$$$$$$$ - classified on Moddel 1- $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

$$$$$$$$$$$$$$$$$$$$ - classified on Moddel 2- $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

$$$$$$$$$$$$$$$$$$$$ - classified on Moddel 3- $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

$$$$$$$$$$$$$$$$$$$$ - classified on Moddel 4- $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

$$$$$$$$$$$$$$$$$$$$ - classified on Moddel 5- $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

$$$$$$$$$$$$$$$$$$$$ - classified on Moddel 6- $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

$$$$$$$$$$$$$$$$$$$$ - classified on Moddel 7- $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

$$$$$$$$$$$$$$$$$$$$ - classified on Moddel 8- $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

$$$$$$$$$$$$$$$$$$$$ - classified on Moddel 9- $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

Done with classification, now you may calculate the accuracy

Number of Esemble Trees / Bags larned : 10

depth trained in each tree is : 5

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1593 True Positive

0 True Neg

531 False Positive

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