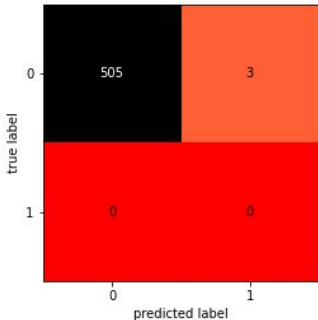
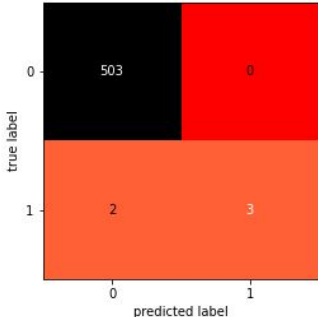
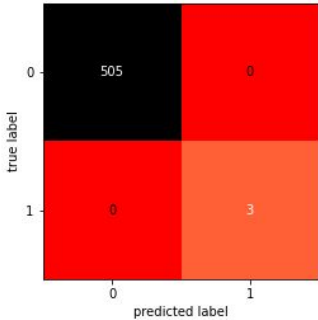
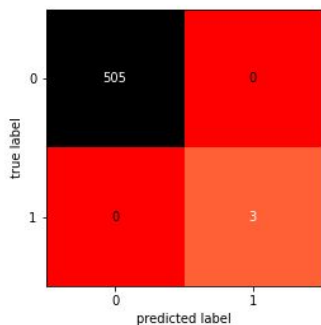
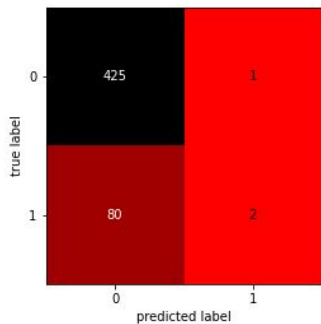
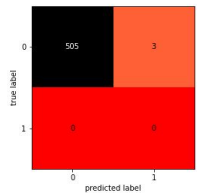
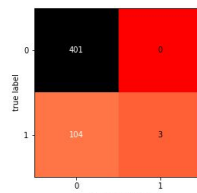


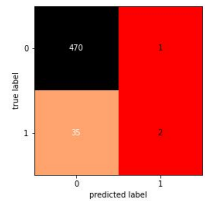
Random Forest Classifier with ADASYN data

S No	Method and dataset used	Accuracy Score	Confusion Matrix									
1	Normalized Data	0.9940944881889764	 <table border="1"><thead><tr><th></th><th>0</th><th>1</th></tr></thead><tbody><tr><th>0</th><td>505</td><td>3</td></tr><tr><th>1</th><td>0</td><td>0</td></tr></tbody></table>		0	1	0	505	3	1	0	0
	0	1										
0	505	3										
1	0	0										
2	Oversampled Data on one tree	0.9960629921259843	 <table border="1"><thead><tr><th></th><th>0</th><th>1</th></tr></thead><tbody><tr><th>0</th><td>503</td><td>0</td></tr><tr><th>1</th><td>2</td><td>3</td></tr></tbody></table>		0	1	0	503	0	1	2	3
	0	1										
0	503	0										
1	2	3										
3	Oversampled Data on two trees	1.0	 <table border="1"><thead><tr><th></th><th>0</th><th>1</th></tr></thead><tbody><tr><th>0</th><td>505</td><td>0</td></tr><tr><th>1</th><td>0</td><td>3</td></tr></tbody></table>		0	1	0	505	0	1	0	3
	0	1										
0	505	0										
1	0	3										

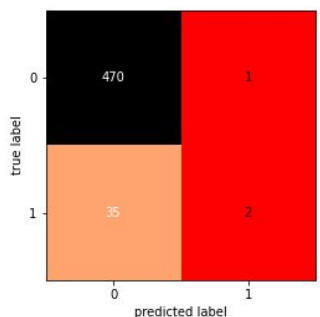
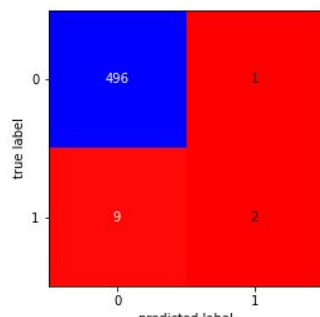
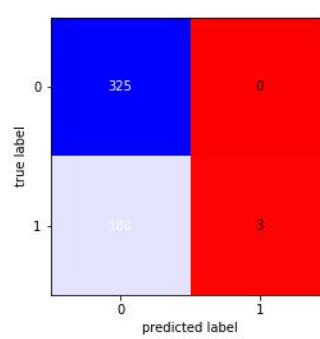
4	Oversampled Data on three trees	1.0	 <p>A 2x2 confusion matrix with 'true label' on the y-axis and 'predicted label' on the x-axis. The top row (true label 0) has a black cell (505) for predicted 0 and a red cell (0) for predicted 1. The bottom row (true label 1) has a red cell (0) for predicted 0 and an orange cell (3) for predicted 1.</p> <table><tr><th>true label \ predicted label</th><th>0</th><th>1</th></tr><tr><th>0</th><td>505</td><td>0</td></tr><tr><th>1</th><td>0</td><td>3</td></tr></table>	true label \ predicted label	0	1	0	505	0	1	0	3
true label \ predicted label	0	1										
0	505	0										
1	0	3										
5	Augment Data	0.8110236220472441	 <p>A 2x2 confusion matrix with 'true label' on the y-axis and 'predicted label' on the x-axis. The top row (true label 0) has a black cell (425) for predicted 0 and a red cell (1) for predicted 1. The bottom row (true label 1) has a dark red cell (80) for predicted 0 and a red cell (2) for predicted 1.</p> <table><tr><th>true label \ predicted label</th><th>0</th><th>1</th></tr><tr><th>0</th><td>425</td><td>1</td></tr><tr><th>1</th><td>80</td><td>2</td></tr></table>	true label \ predicted label	0	1	0	425	1	1	80	2
true label \ predicted label	0	1										
0	425	1										
1	80	2										

K Nearest Neighbors with ADASYN data

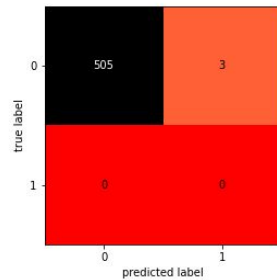
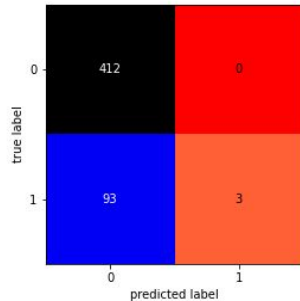
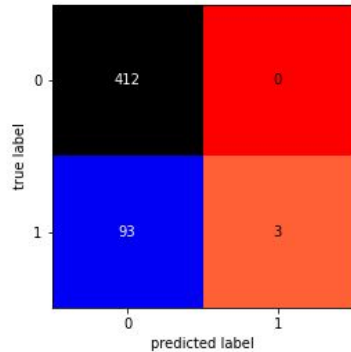
S.No	Method used	Accuracy Score	Confusion Matrix									
1	Normalized Data	0.9940944881889764	 <table><tr><th>true label \ predicted label</th><th>0</th><th>1</th></tr><tr><th>0</th><td>505</td><td>3</td></tr><tr><th>1</th><td>0</td><td>0</td></tr></table>	true label \ predicted label	0	1	0	505	3	1	0	0
true label \ predicted label	0	1										
0	505	3										
1	0	0										
2	Oversampled Data	0.7952755905511811	 <table><tr><th>true label \ predicted label</th><th>0</th><th>1</th></tr><tr><th>0</th><td>401</td><td>0</td></tr><tr><th>1</th><td>104</td><td>3</td></tr></table>	true label \ predicted label	0	1	0	401	0	1	104	3
true label \ predicted label	0	1										
0	401	0										
1	104	3										

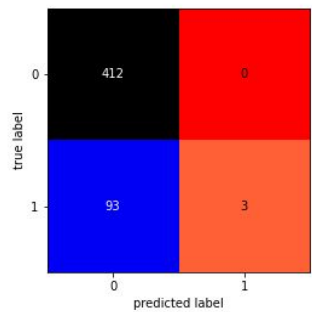
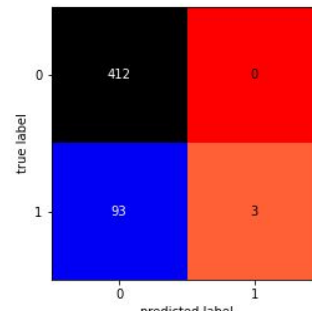
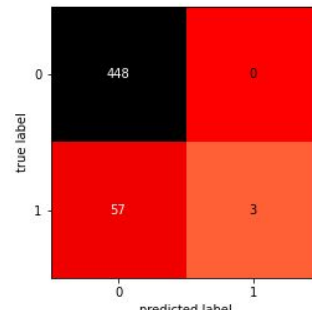
3	Augment Data	0.9291338582677166	 <p>A 2x2 confusion matrix for 'Augment Data'. The y-axis is 'true label' with values 0 and 1. The x-axis is 'predicted label' with values 0 and 1. The matrix shows: True 0, Predicted 0: 470 (black box); True 0, Predicted 1: 1 (red box); True 1, Predicted 0: 35 (orange box); True 1, Predicted 1: 2 (red box).</p>
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Naive Bayes with SMOTE data

S.No	Method used	Accuracy Score	Confusion Matrix
1	Normalized Data	0.9015748031496063	 <p>A 2x2 confusion matrix for 'Normalized Data'. The y-axis is 'true label' with values 0 and 1. The x-axis is 'predicted label' with values 0 and 1. The matrix shows: True 0, Predicted 0: 470 (black box); True 0, Predicted 1: 1 (red box); True 1, Predicted 0: 35 (orange box); True 1, Predicted 1: 2 (red box).</p>
2	Oversampled Data	0.9803149606299213	 <p>A 2x2 confusion matrix for 'Oversampled Data'. The y-axis is 'true label' with values 0 and 1. The x-axis is 'predicted label' with values 0 and 1. The matrix shows: True 0, Predicted 0: 496 (blue box); True 0, Predicted 1: 1 (red box); True 1, Predicted 0: 9 (red box); True 1, Predicted 1: 2 (red box).</p>
3	Augment Data	0.6456692913385826	 <p>A 2x2 confusion matrix for 'Augment Data' using SMOTE. The y-axis is 'true label' with values 0 and 1. The x-axis is 'predicted label' with values 0 and 1. The matrix shows: True 0, Predicted 0: 325 (blue box); True 0, Predicted 1: 0 (red box); True 1, Predicted 0: 180 (light blue box); True 1, Predicted 1: 3 (red box).</p>

Support Vector Machine on SMOTE data

S.No	Method used	Accuracy Score	Confusion Matrix									
1	Normalized data	0.9940944881889764	 <p>A 2x2 confusion matrix for normalized data. The y-axis is labeled 'true label' with values 0 and 1. The x-axis is labeled 'predicted label' with values 0 and 1. The matrix shows 505 true positives (black cell), 3 false positives (orange cell), 0 false negatives (red cell), and 0 true negatives (red cell).</p> <table><tr><th></th><th>predicted label 0</th><th>predicted label 1</th></tr><tr><th>true label 0</th><td>505</td><td>3</td></tr><tr><th>true label 1</th><td>0</td><td>0</td></tr></table>		predicted label 0	predicted label 1	true label 0	505	3	true label 1	0	0
	predicted label 0	predicted label 1										
true label 0	505	3										
true label 1	0	0										
2	Oversampled data with sigmoid function	0.8169291338582677	 <p>A 2x2 confusion matrix for oversampled data with sigmoid function. The y-axis is labeled 'true label' with values 0 and 1. The x-axis is labeled 'predicted label' with values 0 and 1. The matrix shows 412 true positives (black cell), 0 false positives (red cell), 93 false negatives (blue cell), and 3 true negatives (orange cell).</p> <table><tr><th></th><th>predicted label 0</th><th>predicted label 1</th></tr><tr><th>true label 0</th><td>412</td><td>0</td></tr><tr><th>true label 1</th><td>93</td><td>3</td></tr></table>		predicted label 0	predicted label 1	true label 0	412	0	true label 1	93	3
	predicted label 0	predicted label 1										
true label 0	412	0										
true label 1	93	3										
3	Oversampled data with polynomial degree 3 function	0.8169291338582677	 <p>A 2x2 confusion matrix for oversampled data with polynomial degree 3 function. The y-axis is labeled 'true label' with values 0 and 1. The x-axis is labeled 'predicted label' with values 0 and 1. The matrix shows 412 true positives (black cell), 0 false positives (red cell), 93 false negatives (blue cell), and 3 true negatives (orange cell).</p> <table><tr><th></th><th>predicted label 0</th><th>predicted label 1</th></tr><tr><th>true label 0</th><td>412</td><td>0</td></tr><tr><th>true label 1</th><td>93</td><td>3</td></tr></table>		predicted label 0	predicted label 1	true label 0	412	0	true label 1	93	3
	predicted label 0	predicted label 1										
true label 0	412	0										
true label 1	93	3										

4.	Oversampled data with linear function	0.8169291338582677	 <table><tr><th>true label \ predicted label</th><th>0</th><th>1</th></tr><tr><th>0</th><td>412</td><td>0</td></tr><tr><th>1</th><td>93</td><td>3</td></tr></table>	true label \ predicted label	0	1	0	412	0	1	93	3
true label \ predicted label	0	1										
0	412	0										
1	93	3										
4	Oversampled data with rbf function	0.8169291338582677	 <table><tr><th>true label \ predicted label</th><th>0</th><th>1</th></tr><tr><th>0</th><td>412</td><td>0</td></tr><tr><th>1</th><td>93</td><td>3</td></tr></table>	true label \ predicted label	0	1	0	412	0	1	93	3
true label \ predicted label	0	1										
0	412	0										
1	93	3										
5	Augment data	0.8877952755905512	 <table><tr><th>true label \ predicted label</th><th>0</th><th>1</th></tr><tr><th>0</th><td>448</td><td>0</td></tr><tr><th>1</th><td>57</td><td>3</td></tr></table>	true label \ predicted label	0	1	0	448	0	1	57	3
true label \ predicted label	0	1										
0	448	0										
1	57	3										