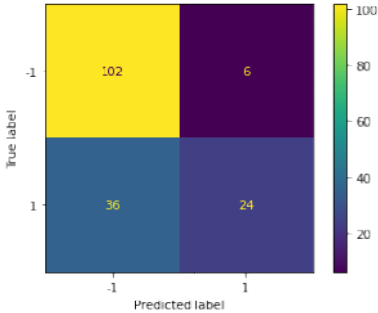
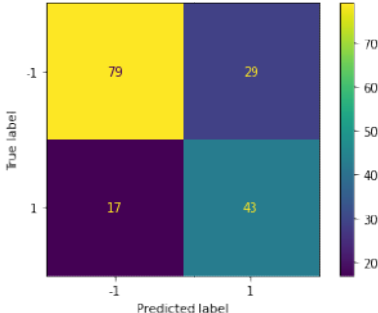
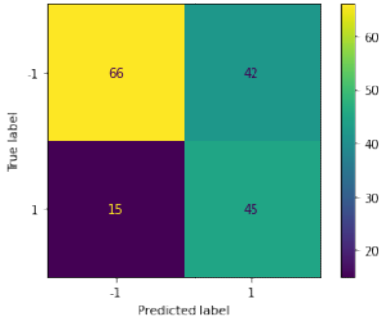
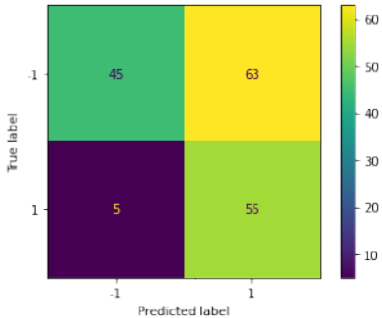
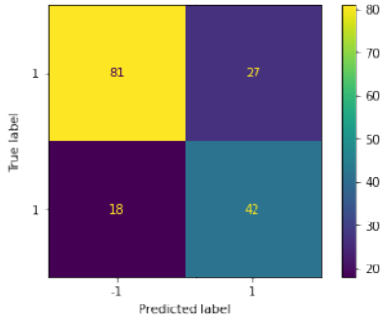
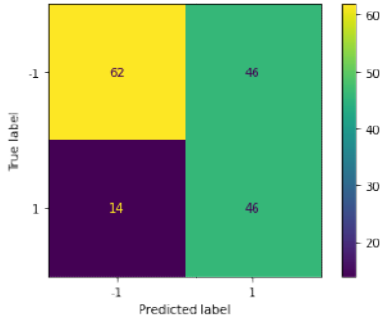


In the table:
n_samples: number of points generated while oversampling
k_neighbours: number of neighbors to be considered in SMOTE

pima-indian-diabetes

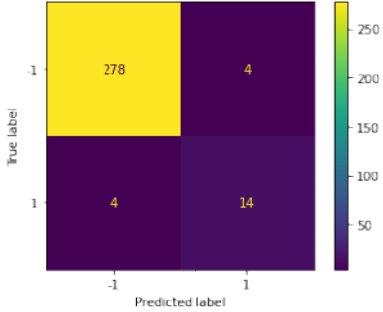
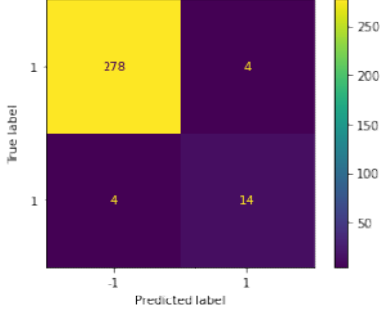
n_samples	k_neighbors	Result									
0		<div>Accuracy Score: 0.75 Recall: 0.8 Precision: 0.4 MCC: 0.4309297890512878 Confusion Matrix:</div> <div><p>A confusion matrix plot for k=0. The x-axis is 'Predicted label' with values -1 and 1. The y-axis is 'True label' with values -1 and 1. The matrix shows 102 true negatives (top-left, yellow), 6 false positives (top-right, dark purple), 36 false negatives (bottom-left, blue), and 24 true positives (bottom-right, dark blue). A color bar on the right indicates counts from 0 to 100.</p><table border="1"><thead><tr><th></th><th>Predicted -1</th><th>Predicted 1</th></tr></thead><tbody><tr><th>True -1</th><td>102</td><td>6</td></tr><tr><th>True 1</th><td>36</td><td>24</td></tr></tbody></table></div>		Predicted -1	Predicted 1	True -1	102	6	True 1	36	24
	Predicted -1	Predicted 1									
True -1	102	6									
True 1	36	24									
10	3	<div>Accuracy Score: 0.7261904761904762 Recall: 0.5972222222222222 Precision: 0.7166666666666667 MCC: 0.433917578602868 Confusion Matrix:</div> <div><p>A confusion matrix plot for k=3. The x-axis is 'Predicted label' with values -1 and 1. The y-axis is 'True label' with values -1 and 1. The matrix shows 79 true negatives (top-left, yellow), 29 false positives (top-right, dark blue), 17 false negatives (bottom-left, dark purple), and 43 true positives (bottom-right, teal). A color bar on the right indicates counts from 0 to 70.</p><table border="1"><thead><tr><th></th><th>Predicted -1</th><th>Predicted 1</th></tr></thead><tbody><tr><th>True -1</th><td>79</td><td>29</td></tr><tr><th>True 1</th><td>17</td><td>43</td></tr></tbody></table></div>		Predicted -1	Predicted 1	True -1	79	29	True 1	17	43
	Predicted -1	Predicted 1									
True -1	79	29									
True 1	17	43									

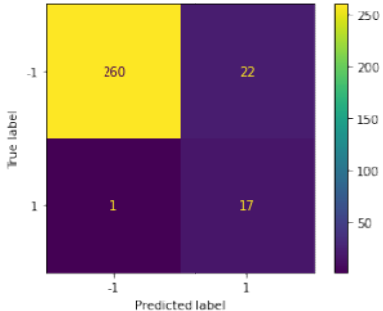
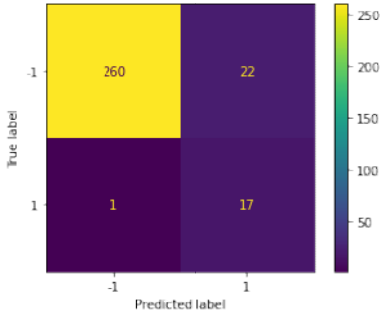
20	3	<p>Accuracy Score: 0.6607142857142857 Recall: 0.5172413793103449 Precision: 0.75 MCC: 0.34627905107277746 Confusion Matrix:</p> 
30	3	<p>Accuracy Score: 0.5952380952380952 Recall: 0.4661016949152542 Precision: 0.9166666666666666 MCC: 0.3493335058437492 Confusion Matrix:</p> 

10	5	<p>Accuracy Score: 0.7321428571428571 Recall: 0.6086956521739131 Precision: 0.7 MCC: 0.4382862782019066 Confusion Matrix:</p>  <table border="1"><thead><tr><th></th><th>Predicted label -1</th><th>Predicted label 1</th></tr></thead><tbody><tr><th>True label 1</th><td>81</td><td>27</td></tr><tr><th>True label -1</th><td>18</td><td>42</td></tr></tbody></table>		Predicted label -1	Predicted label 1	True label 1	81	27	True label -1	18	42
	Predicted label -1	Predicted label 1									
True label 1	81	27									
True label -1	18	42									
20	5	<p>Accuracy Score: 0.6428571428571429 Recall: 0.5 Precision: 0.7666666666666667 MCC: 0.3280279548777612 Confusion Matrix:</p>  <table border="1"><thead><tr><th></th><th>Predicted label -1</th><th>Predicted label 1</th></tr></thead><tbody><tr><th>True label 1</th><td>62</td><td>46</td></tr><tr><th>True label -1</th><td>14</td><td>46</td></tr></tbody></table>		Predicted label -1	Predicted label 1	True label 1	62	46	True label -1	14	46
	Predicted label -1	Predicted label 1									
True label 1	62	46									
True label -1	14	46									

Data

n_samples	k_neighbors	Result
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0		<p>Accuracy Score: 0.9733333333333334 Recall: 0.7777777777777778 Precision: 0.7777777777777778 MCC: 0.7635933806146572 Confusion Matrix:</p>  <p>A 2x2 confusion matrix for True label 0. The x-axis is 'Predicted label' with values -1 and 1. The y-axis is 'True label' with values -1 and 1. The matrix values are: True -1, Predicted -1: 278; True -1, Predicted 1: 4; True 1, Predicted -1: 4; True 1, Predicted 1: 14. A color bar on the right indicates counts from 0 to 250.</p> <table border="1"><thead><tr><th></th><th>Predicted label -1</th><th>Predicted label 1</th></tr></thead><tbody><tr><th>True label -1</th><td>278</td><td>4</td></tr><tr><th>True label 1</th><td>4</td><td>14</td></tr></tbody></table>		Predicted label -1	Predicted label 1	True label -1	278	4	True label 1	4	14
	Predicted label -1	Predicted label 1									
True label -1	278	4									
True label 1	4	14									
50	3	<p>Accuracy Score: 0.9733333333333334 Recall: 0.7777777777777778 Precision: 0.7777777777777778 MCC: 0.7635933806146572 Confusion Matrix:</p>  <p>A 2x2 confusion matrix for True label 50. The x-axis is 'Predicted label' with values -1 and 1. The y-axis is 'True label' with values -1 and 1. The matrix values are: True -1, Predicted -1: 278; True -1, Predicted 1: 4; True 1, Predicted -1: 4; True 1, Predicted 1: 14. A color bar on the right indicates counts from 0 to 250.</p> <table border="1"><thead><tr><th></th><th>Predicted label -1</th><th>Predicted label 1</th></tr></thead><tbody><tr><th>True label -1</th><td>278</td><td>4</td></tr><tr><th>True label 1</th><td>4</td><td>14</td></tr></tbody></table>		Predicted label -1	Predicted label 1	True label -1	278	4	True label 1	4	14
	Predicted label -1	Predicted label 1									
True label -1	278	4									
True label 1	4	14									

100	3	<p>Accuracy Score: 0.9233333333333333 Recall: 0.4358974358974359 Precision: 0.9444444444444444 MCC: 0.6118456280548182 Confusion Matrix:</p>  <table border="1"><thead><tr><th></th><th>Predicted label -1</th><th>Predicted label 1</th></tr></thead><tbody><tr><th>True label -1</th><td>260</td><td>22</td></tr><tr><th>True label 1</th><td>1</td><td>17</td></tr></tbody></table>		Predicted label -1	Predicted label 1	True label -1	260	22	True label 1	1	17
	Predicted label -1	Predicted label 1									
True label -1	260	22									
True label 1	1	17									
100	5	<p>Accuracy Score: 0.9233333333333333 Recall: 0.4358974358974359 Precision: 0.9444444444444444 MCC: 0.6118456280548182 Confusion Matrix:</p>  <table border="1"><thead><tr><th></th><th>Predicted label -1</th><th>Predicted label 1</th></tr></thead><tbody><tr><th>True label -1</th><td>260</td><td>22</td></tr><tr><th>True label 1</th><td>1</td><td>17</td></tr></tbody></table>		Predicted label -1	Predicted label 1	True label -1	260	22	True label 1	1	17
	Predicted label -1	Predicted label 1									
True label -1	260	22									
True label 1	1	17									

150

5

Accuracy Score:
0.9233333333333333
Recall: 0.4358974358974359
Precision:
0.9444444444444444
MCC: 0.6118456280548182
Confusion Matrix:

