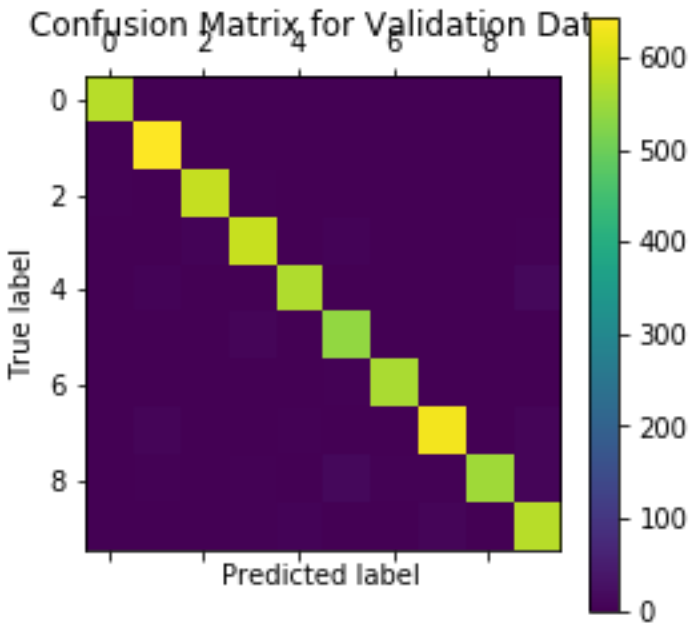
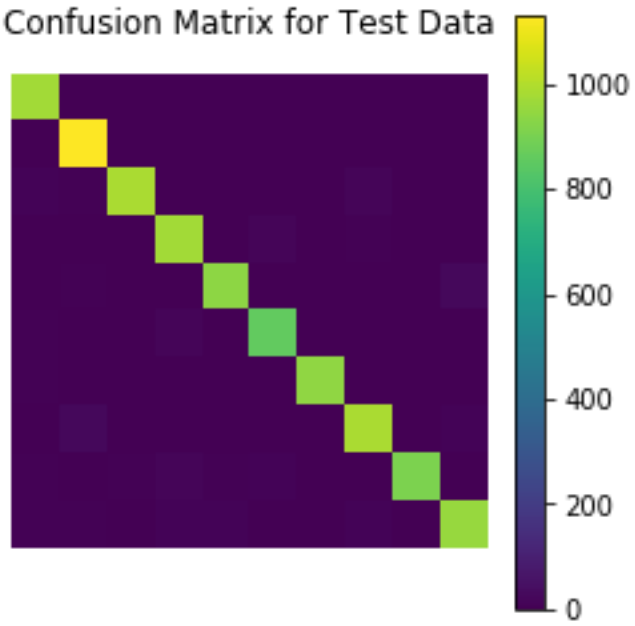
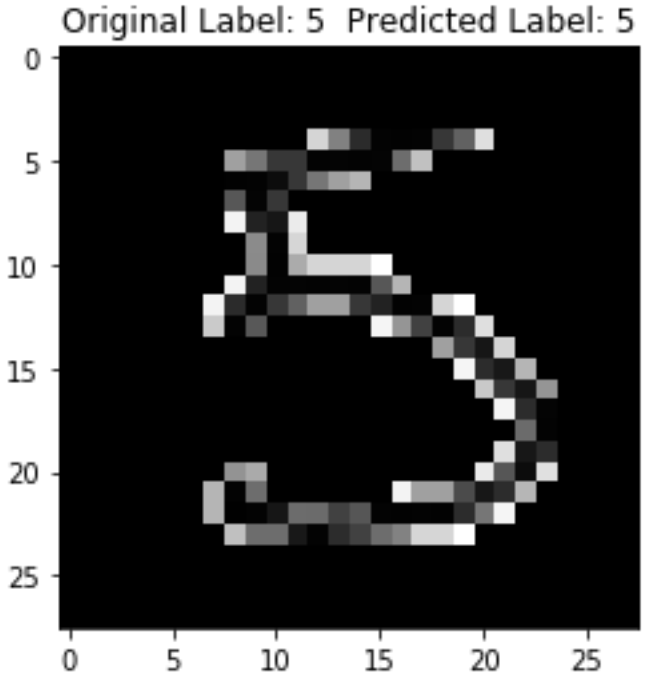
```
Loading XDD Training Data...
[[0 0 0 ... 0 0 0]
 [0 0 0 ... 0 0 0]
 [0 0 0 ... 0 0 0]
 ...
 [0 0 0 ... 0 0 0]
 [0 0 0 ... 0 0 0]
 [0 0 0 ... 0 0 0]]

Preparing Classifier Training and Validation Data...

KNN Classifier with n_neighbors = 5, algorithm = auto, n_jobs = 10

Pickling the Classifier for Future Use...

Calculating Accuracy of trained Classifier...

Making Predictions on Validation Data...

Calculating Accuracy of Predictions...

Creating Confusion Matrix...

KNN Trained Classifier Confidence:  0.9705

Predicted Values:  [8 8 3 ... 1 2 3]

Accuracy of Classifier on Validation Image Data:  0.9705

Confusion Matrix:
 [[574   0   0   0   0   0   1   0   0   0]
 [  0 644   1   0   0   0   1   1   0   1]
 [  3   2 587   4   0   1   1   1   0   0]
 [  0   2   7 589   0   6   1   2   0   4]
 [  1   6   2   0 567   0   1   0   1  13]
 [  0   0   0   9   0 540   2   0   1   2]
 [  2   1   0   0   1   3 562   0   0   0]
 [  0   9   1   0   4   1   0 633   0   9]
 [  2   5   2   5   1  13   5   3 553   8]
 [  0   2   0   4   7   1   1   9   1 574]]
```




```
Making Predictions on Test Input Images...

Calculating Accuracy of Trained Classifier on Test Data...

 Creating Confusion Matrix for Test Data...

Predicted Labels for Test Images:  [7 2 1 ... 4 5 6]

Accuracy of Classifier on Test Images:  0.9674

Confusion Matrix for Test Data:
 [[ 974    1    1    0    0    1    2    1    0    0]
 [   0 1133    2    0    0    0    0    0    0    0]
 [  11    8  989    4    1    0    2   14    3    0]
 [   0    3    4  975    1   14    0    6    4    3]
 [   2    7    0    0  942    0    4    2    1   24]
 [   5    0    0   15    1  861    3    1    2    4]
 [   6    3    0    0    3    2  944    0    0    0]
 [   0   24    4    0    3    0    0  987    0   10]
 [   7    3    5   16    7   13    4    4  911    4]
 [   6    7    3    9    9    3    1   11    2  958]]
```


Confusion Matrix for Test Data
1000
800
600
400
200
0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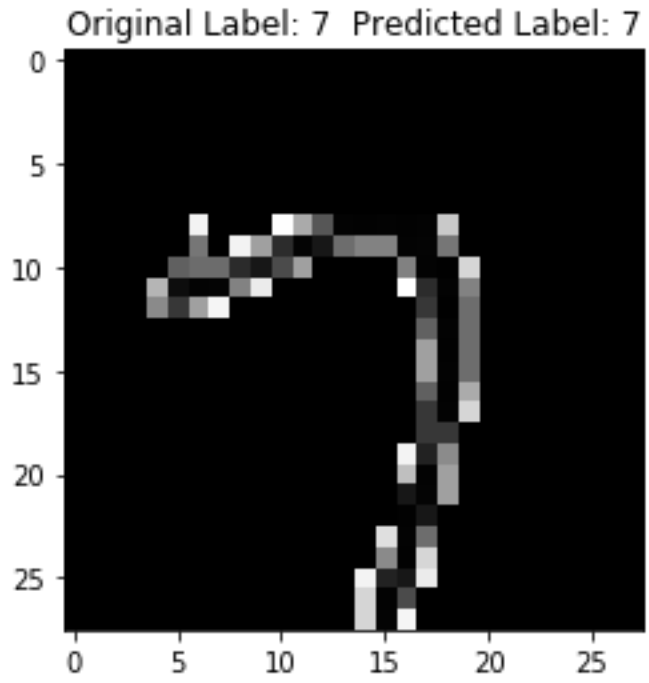
10
15
20
25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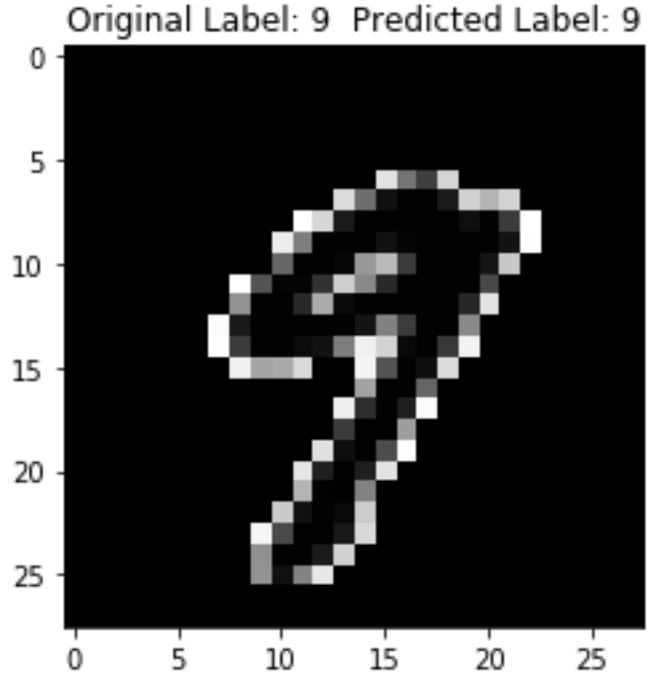
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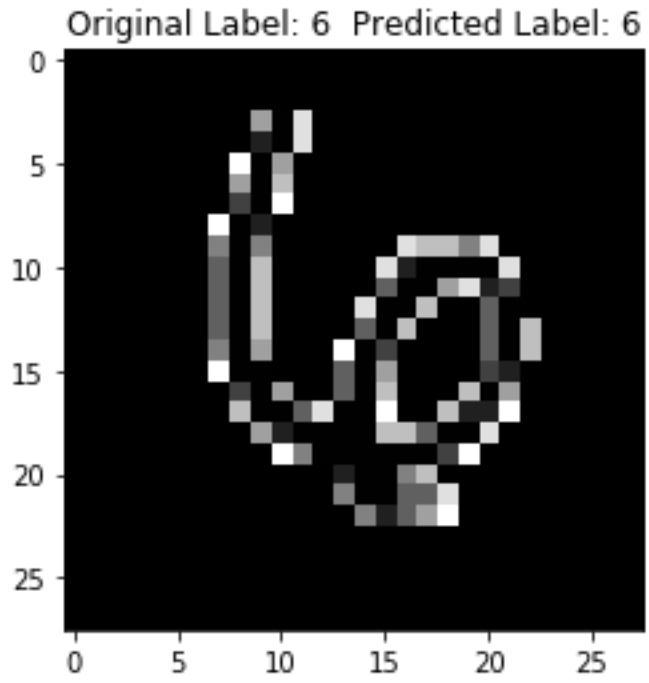
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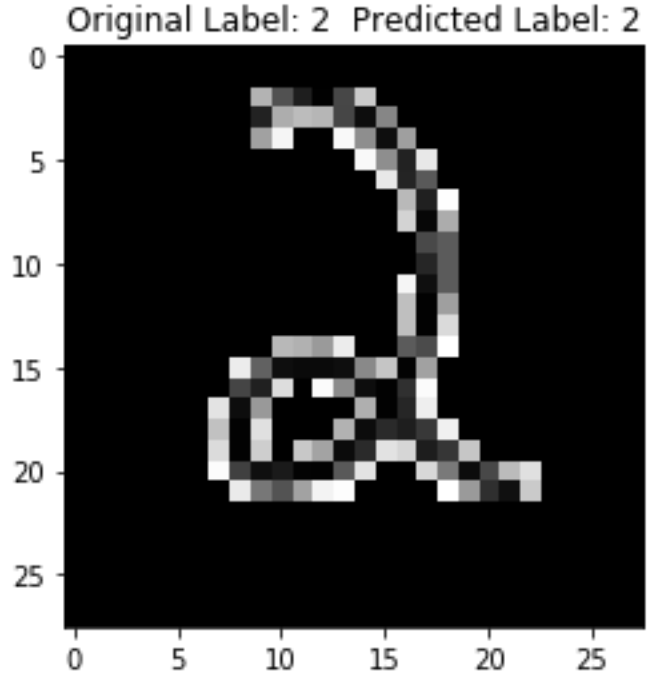
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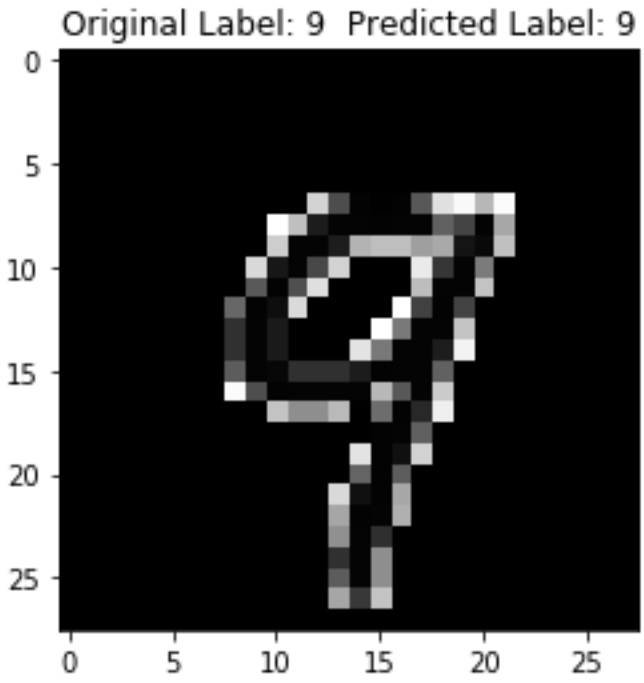
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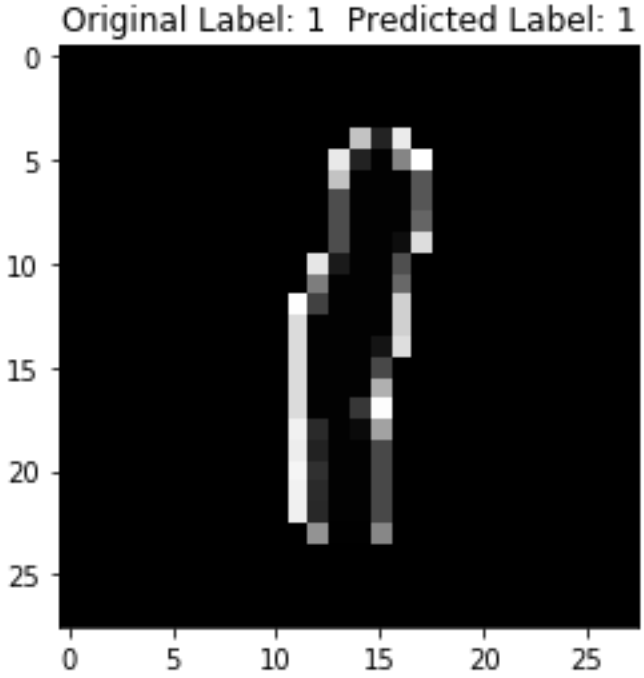
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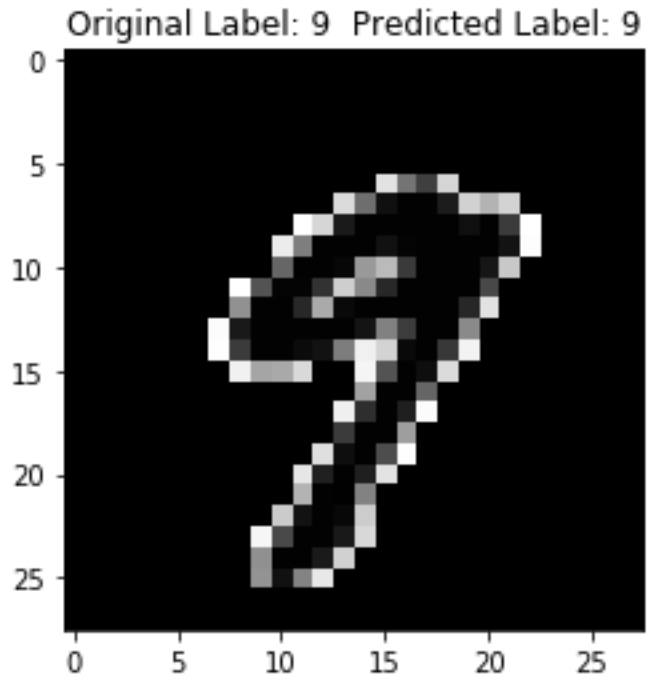
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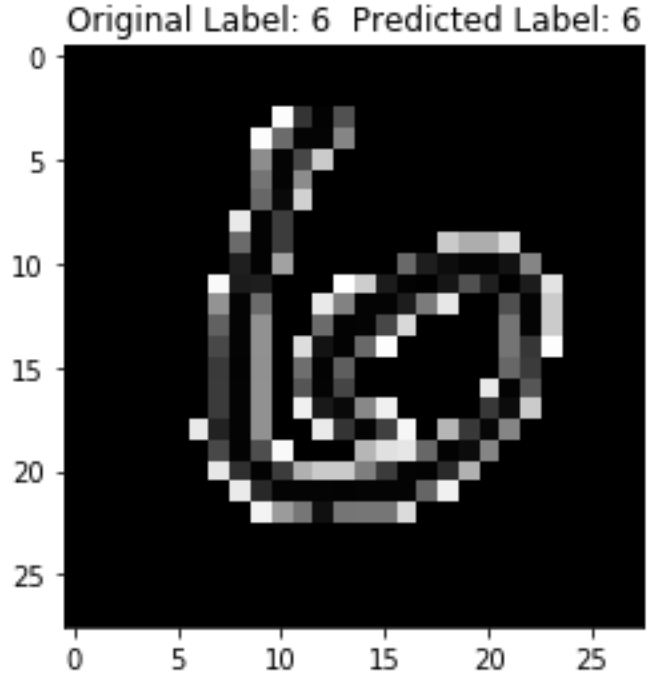
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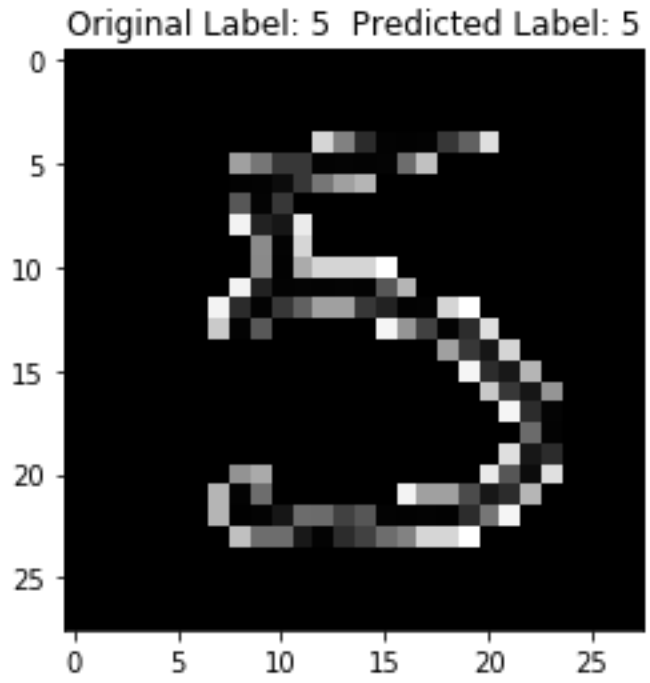
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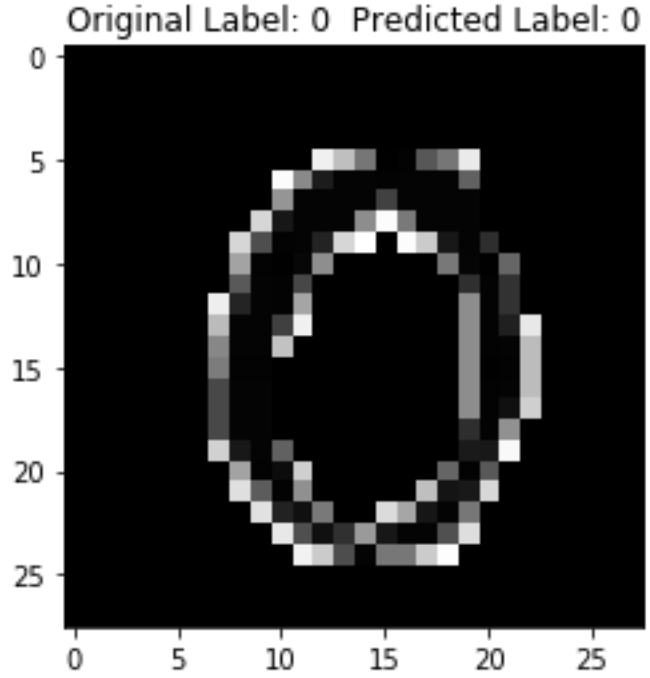
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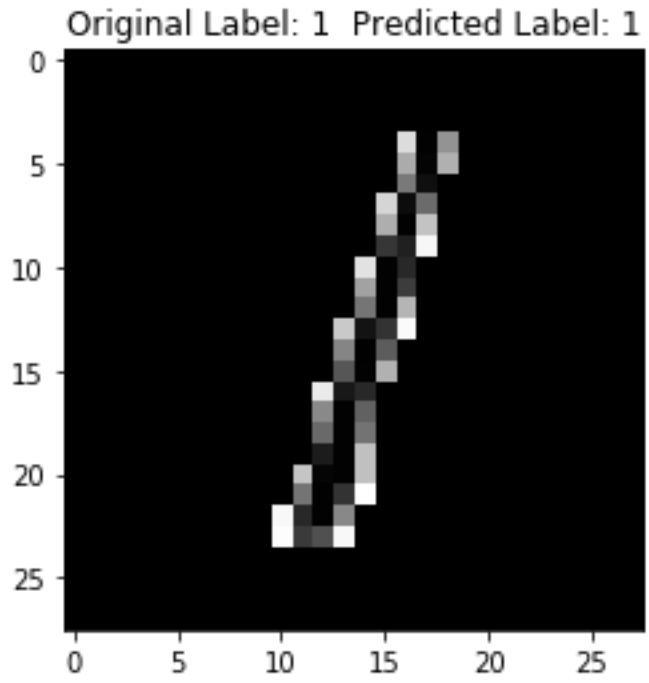
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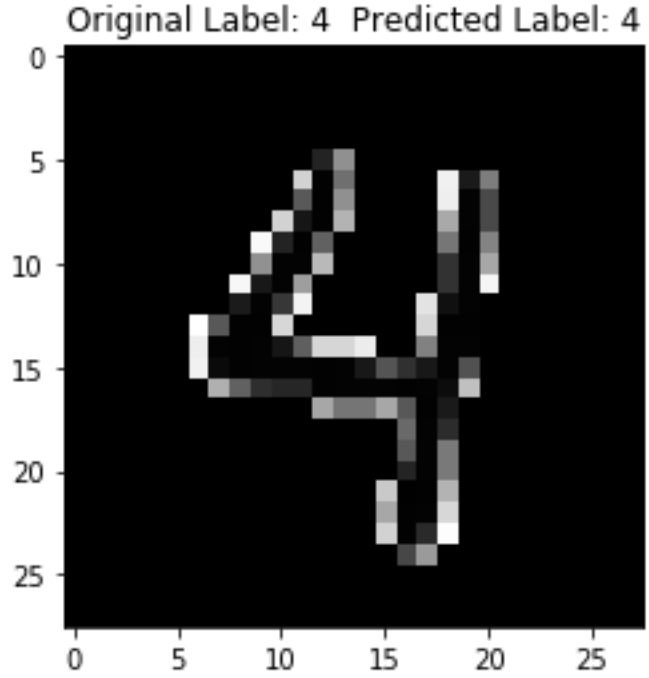
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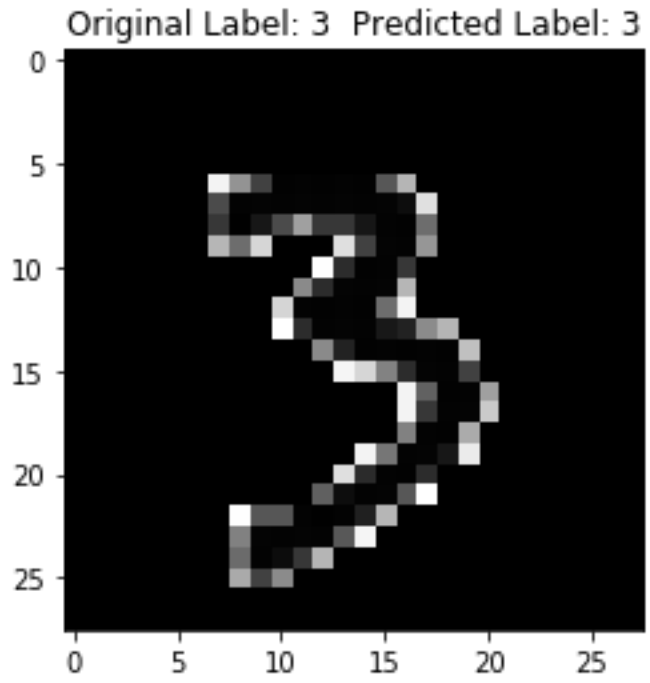
Original Label: 3 Predicted Label: 3
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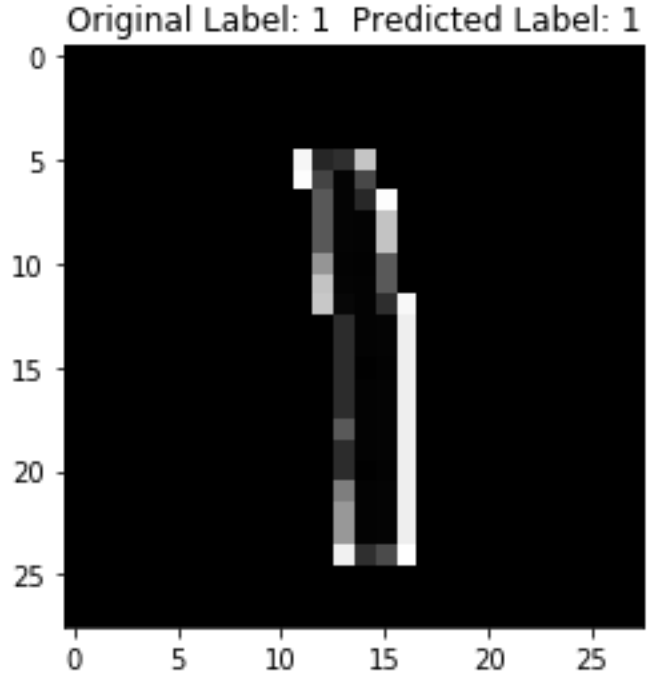
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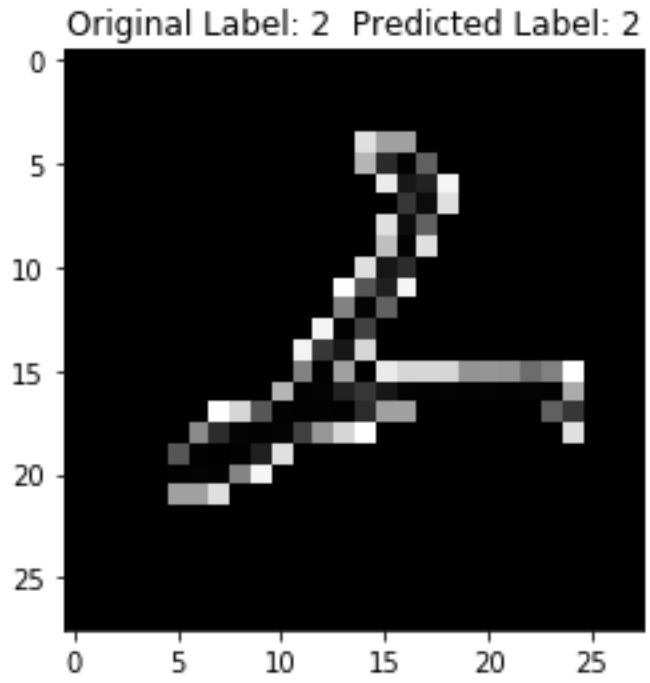
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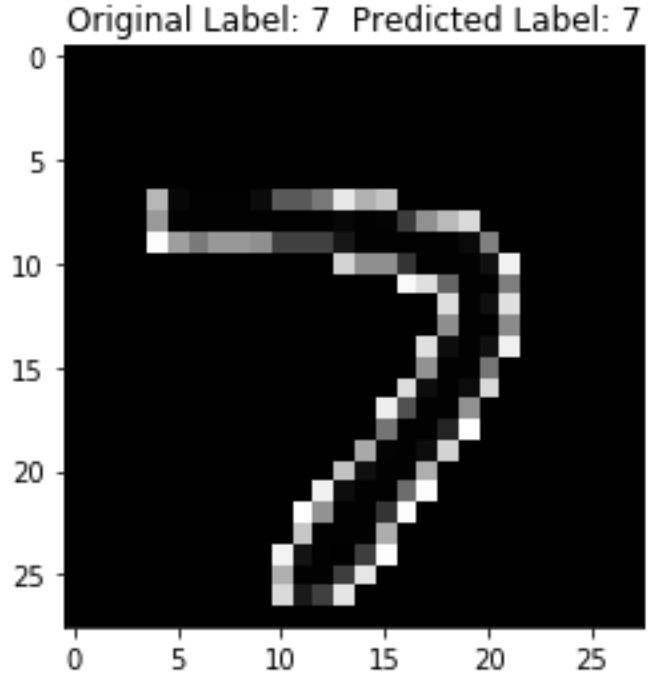
Original Label: 7 Predicted Label: 7
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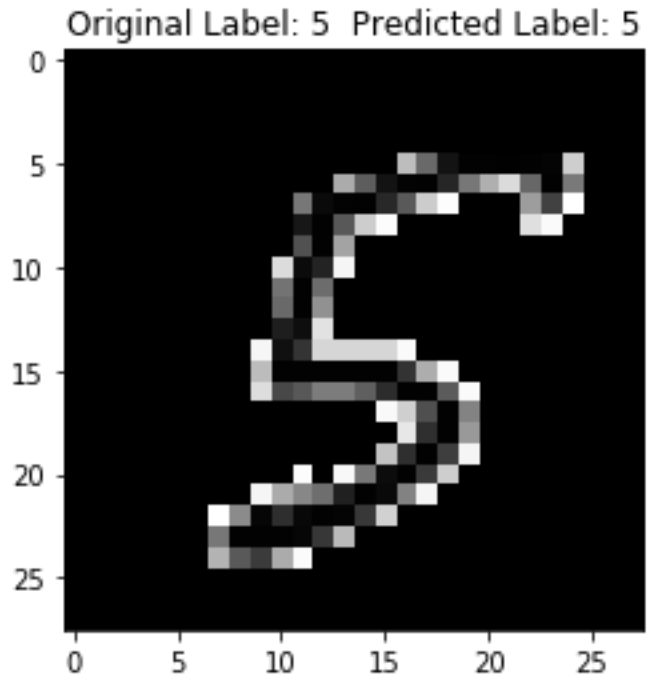
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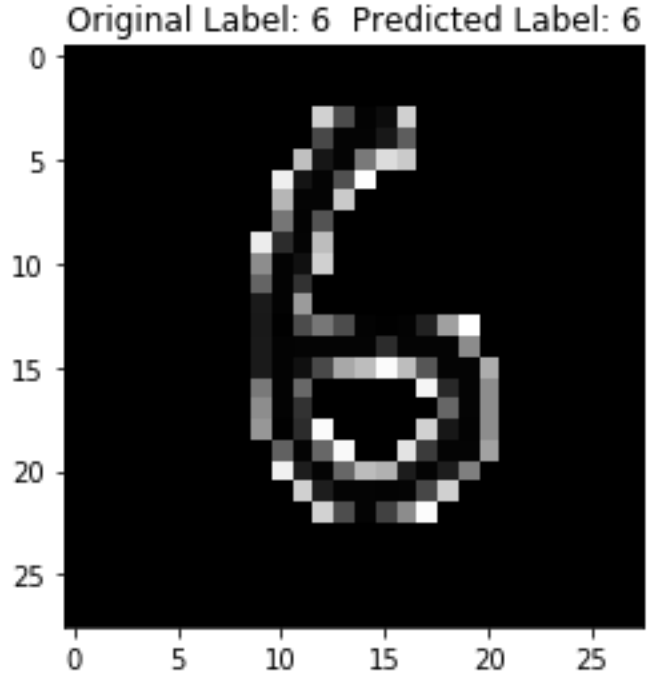
Original Label: 6 Predicted Label: 6
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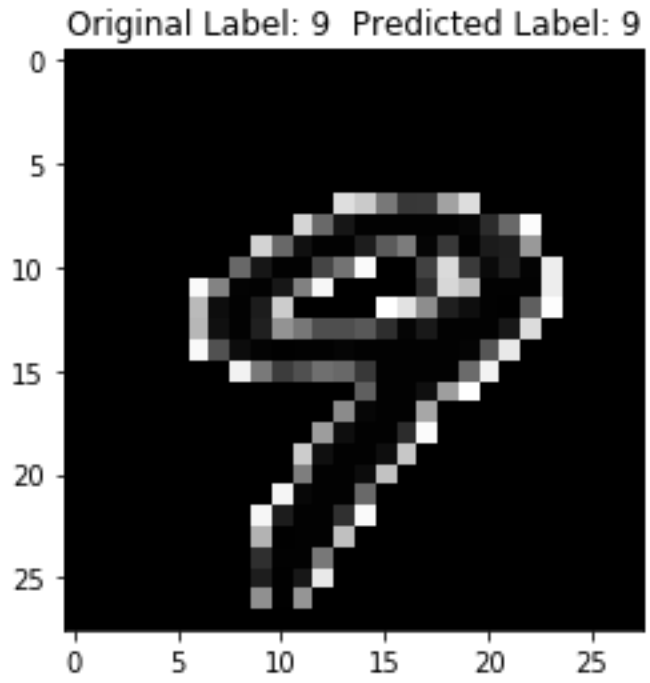
Original Label: 9 Predicted Label: 9
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