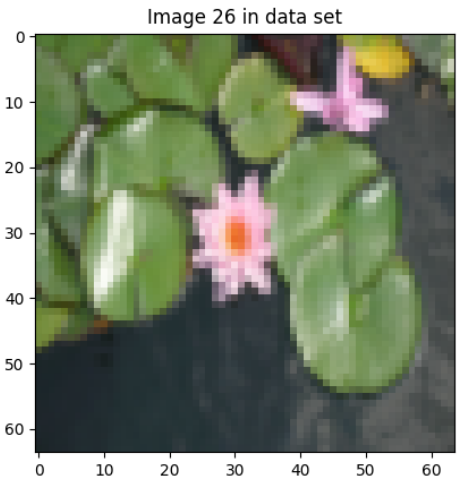
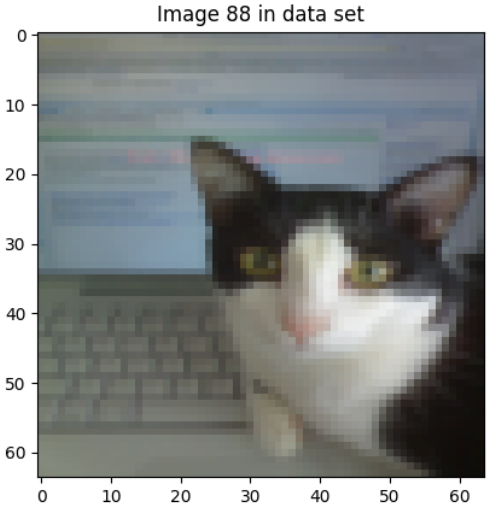




The predictions scores for binary classifier NN_2_layers with layers size [12288, 5, 1]:

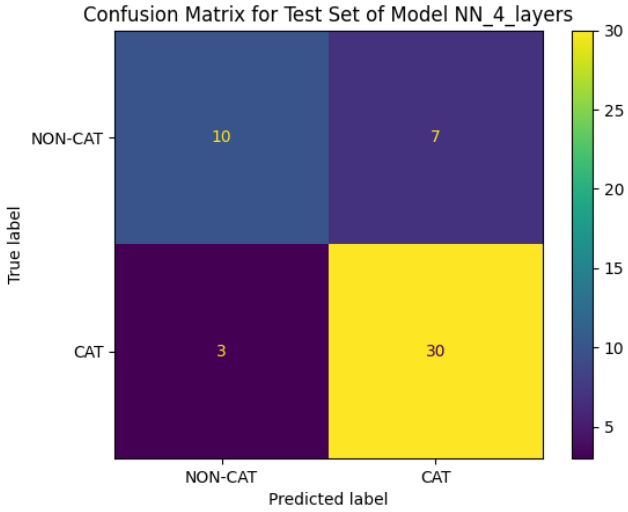
	f1_score	accuracy_score	precision_score	recall_score
NN_2_layers train set	1.0000	1.00	1.00000	1.000000
NN_2_layers test set	0.8125	0.76	0.83871	0.787879

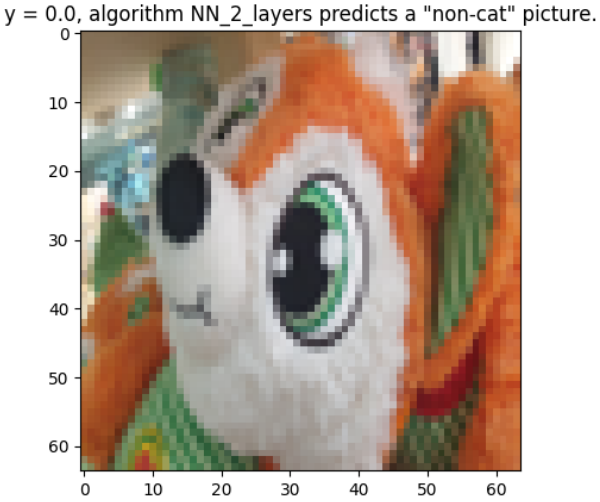
The predictions scores for binary classifier NN_4_layers with layers size [12288, 20, 7, 5, 1]:

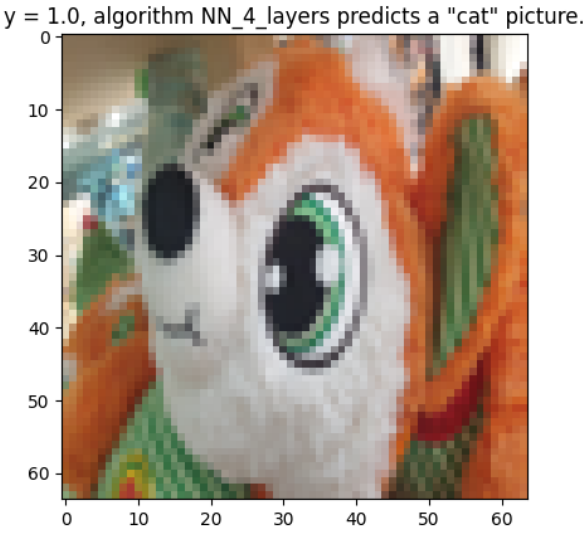
	f1_score	accuracy_score	precision_score	recall_score
NN_4_layers train set	0.971429	0.980861	1.000000	0.944444
NN_4_layers test set	0.857143	0.800000	0.810811	0.909091

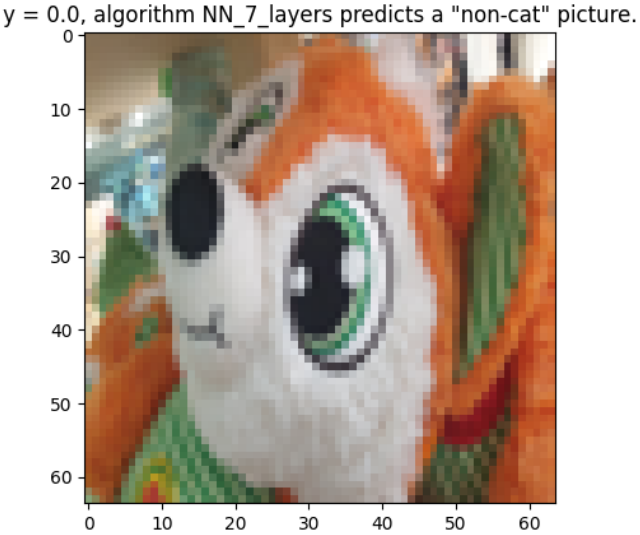
The predictions scores for binary classifier NN_7_layers with layers size [12288, 80, 60, 40, 20, 10, 5, 1]:

	f1_score	accuracy_score	precision_score	recall_score
NN_7_layers train set	0.966443	0.976077	0.935065	1.000000
NN_7_layers test set	0.736842	0.700000	0.875000	0.636364


Confusion Matrix for Test Set of Model NN_4_layers
NON-CAT
CAT
True label
10
7
3
30
NON-CAT
CAT
Predicted label
30
25
20
15
10
5


y = 0.0, algorithm NN_2_layers predicts a "non-cat" picture.


y = 1.0, algorithm NN_4_layers predicts a "cat" picture.


y = 0.0, algorithm NN_7_layers predicts a "non-cat" picture.