

Logistic regression model training running...

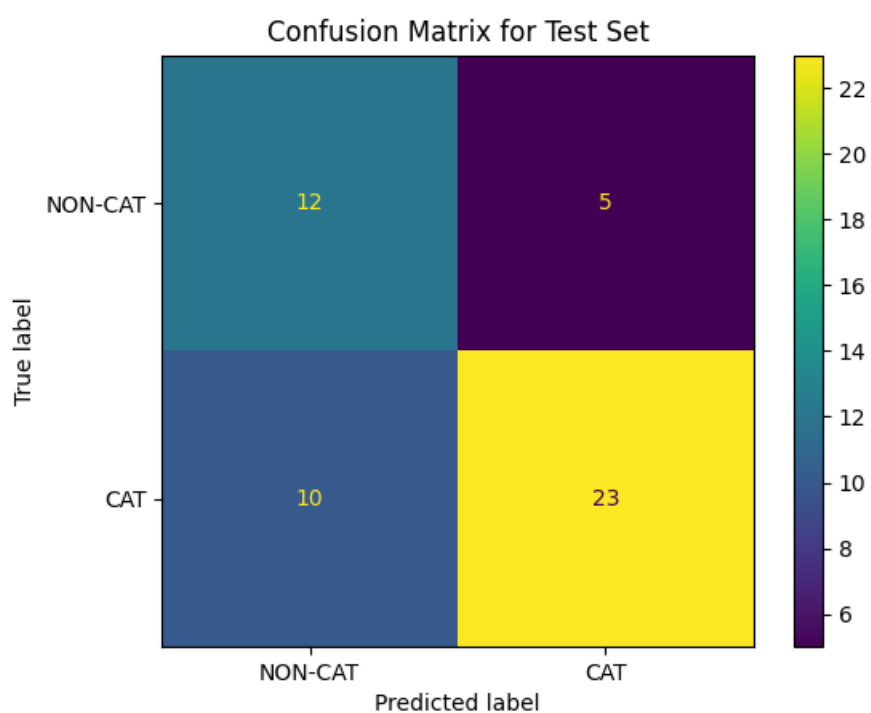
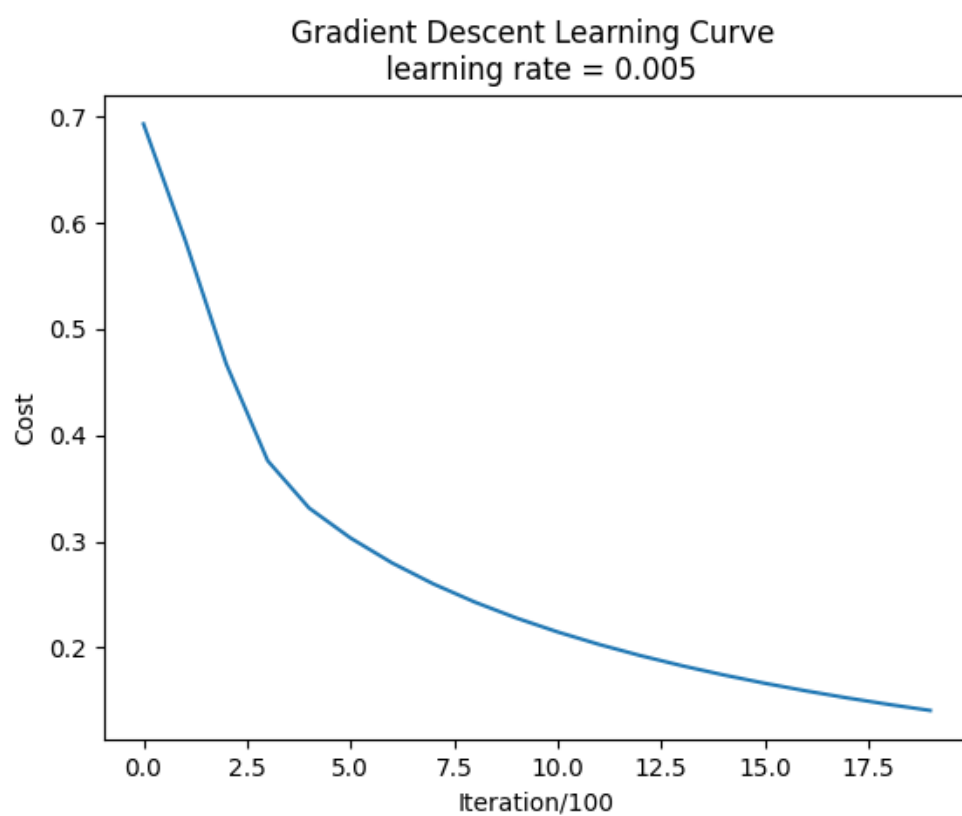
```
Cost after iteration 0: 0.693147
Cost after iteration 100: 0.584508
Cost after iteration 200: 0.466949
Cost after iteration 300: 0.376007
Cost after iteration 400: 0.331463
Cost after iteration 500: 0.303273
Cost after iteration 600: 0.279880
Cost after iteration 700: 0.260042
Cost after iteration 800: 0.242941
Cost after iteration 900: 0.228004
Cost after iteration 1000: 0.214820
Cost after iteration 1100: 0.203078
Cost after iteration 1200: 0.192544
Cost after iteration 1300: 0.183033
Cost after iteration 1400: 0.174399
Cost after iteration 1500: 0.166521
Cost after iteration 1600: 0.159305
Cost after iteration 1700: 0.152667
Cost after iteration 1800: 0.146542
Cost after iteration 1900: 0.140872
```

Logistic regression model training was finished

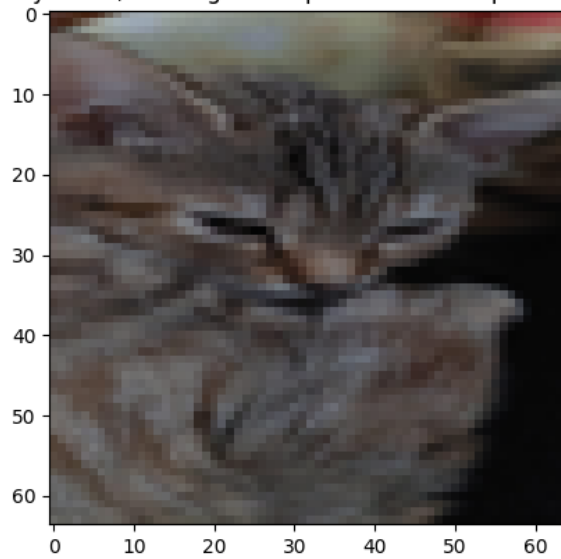
Let us take a look to the evolution of the gradient descent algorithm:

The scores for predictions are:

	f1_score	accuracy_score	precision_score	recall_score
Logistic Regression on Train Set	0.986111	0.990431	0.986111	0.986111
Logistic Regression on Test Set	0.754098	0.700000	0.821429	0.696970



$y = 1.0$, This algorithm predicts a "cat" picture.



$y = 1.0$, This algorithm predicts a "cat" picture.

