Classification Project

Weslley Matheus

Contents

Classification **2**
Dataset Information 2
Confusion Matrix 3

Classification

Dataset Information

- 70,000 small images of digits handwritten. There are 70,000 images with 28×28 pixels, and each image has 784 columns or features.
- Each column or feature value represents the pixel's intensity, from 0 (white) to 255 (black).

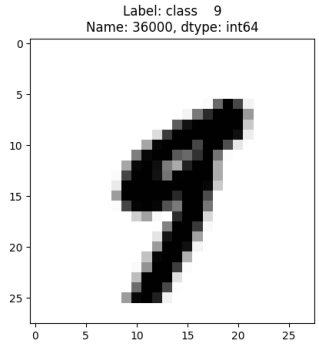
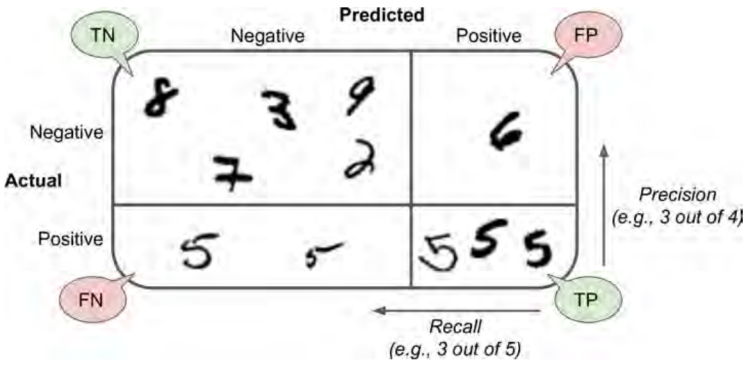


Figure 1: A digit from the dataset with its corresponding value from the label column.

Confusion Matrix



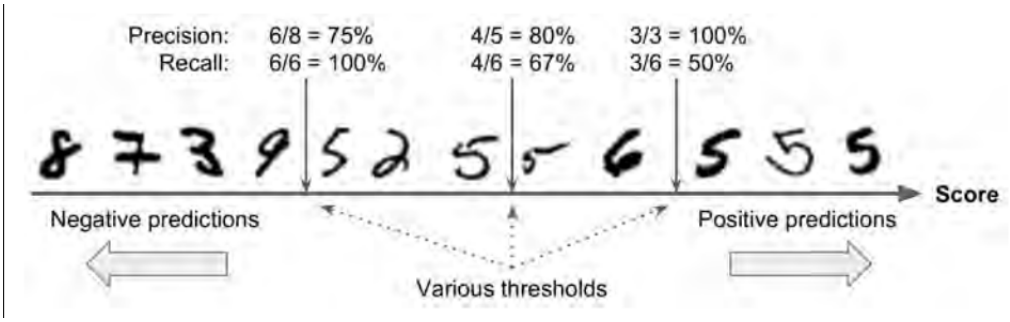
Precision

$$P = \frac{True\,Positives}{True\,Positives + False\,Positrives}$$

Recall

$$R = \frac{True\,Positives}{True\,Positives + False\,Negatives}$$

Precision / Recall Tradeoff



Increasing the threshold will increase precision and reduce recall, and vice versa.