Table

Description automatically generated

Solution 0

Classification accuracy is defined as the percentage of classification that are correct.

For Classifier A, 86 + 85 = 171 classifications are correct out of 200 classifications.

So, accuracy is, 85.5

Classification accuracy of Classifier B is, (95 + 76)/200 = 85.5

So, the accuracy of both classifiers is equal.

Now, about which classifier would I prefer?

The classification accuracy is same on both cases. So, I will select a classifier based on what is the business purpose. If the purpose is to identify cases of class 1 and mislabelling class 1 as class 2 can be costly, then I will chose second classifier.

If the business case can ignore few misidentification of class 1 as class 2, but wrongfully identification of objects of class 2 and class 1 can be costly, then I will chose the first classifier.