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Graded Assignment 2 Report

1. This model looks to be performing very well as its accuracy rate is 91% and a very low misclassification rate 0.09%. The false positive rate is low while the false negative rate is pretty high (at 65%) which tells me that the model is having trouble classifying positive cases (Fraudulent). This could be because there is not a lot of fraud instances compared to non-fraud instances (88 fraud to 952 non-fraud).

Confusion Matrix

Table

Description automatically generated

Calculations

Table

Description automatically generated

2. This model seems to be doing alright on the sample dataset with an accuracy rate greater than 70% (72.5%). The misclassification rate is 27.5% which is acceptable. The false positive and false negative rates are close to each other which tells me that the model is classifying both classes well and that can also be seen as the precision score is showing the predicted positive outcomes being correct.

Confusion Matrix

Table

Description automatically generated

Calculations

Graphical user interface, application, table, Excel

Description automatically generated