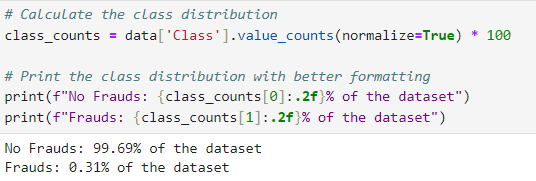
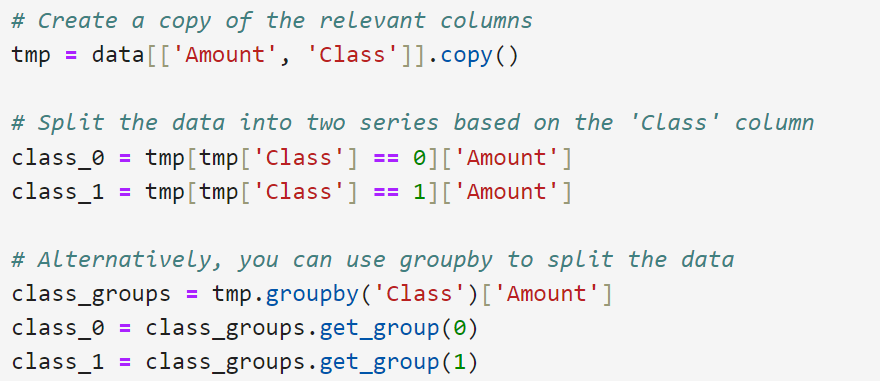
* A PDF detailing:



* No Frauds: 99.69% of the dataset
* Frauds: 0.31% of the dataset

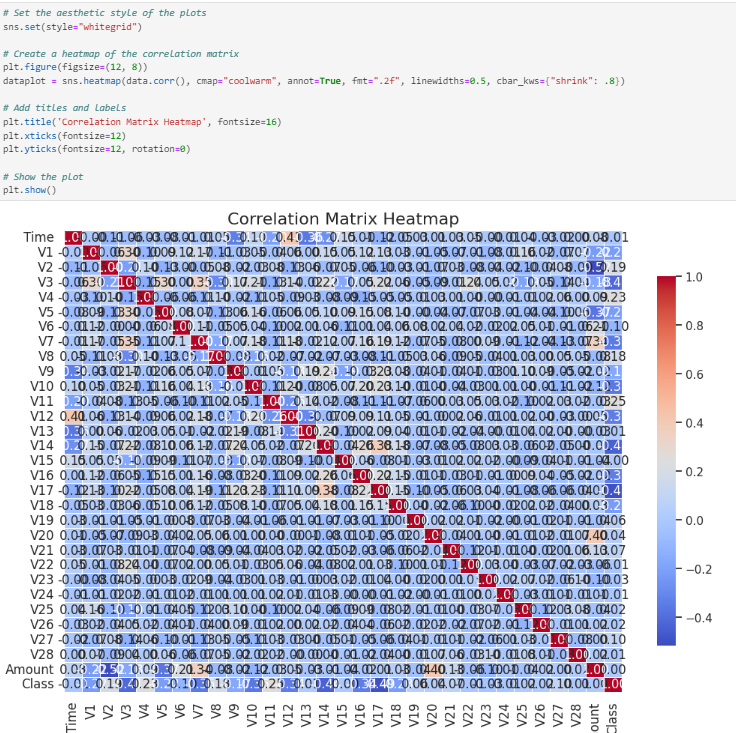
A screenshot of a computer

Description automatically generated



A screenshot of a computer

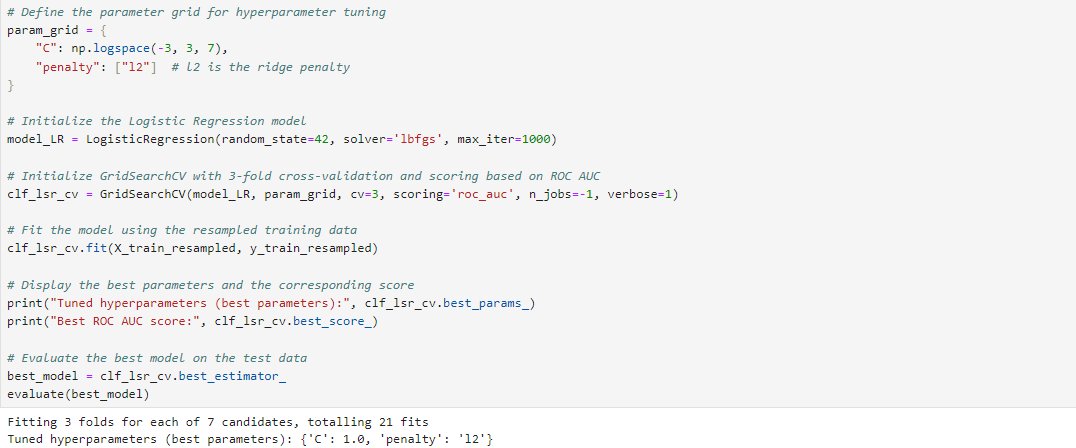
Description automatically generatedA screenshot of a computer

Description automatically generated  


A screenshot of a computer

Description automatically generated

* Logistic Regression (max\_iter=1000, random\_state=42)
* Accuracy: 0.9873
* Recall: 1.0000
* F1 Score: 0.3273



* **Fitting 3 folds for each of 7 candidates, totalling 21 fits**
* **Tuned hyperparameters (best parameters): {'C': 1.0, 'penalty': 'l2'}**

**Best ROC AUC score: 0.9990587160968903**

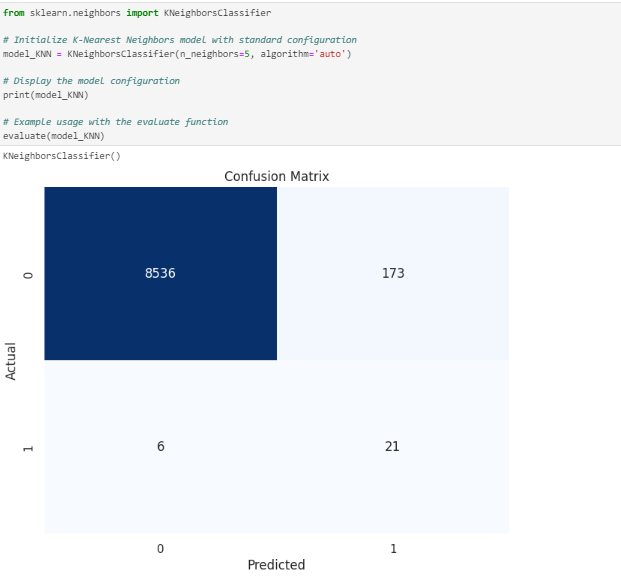
A blue and white graph

Description automatically generated

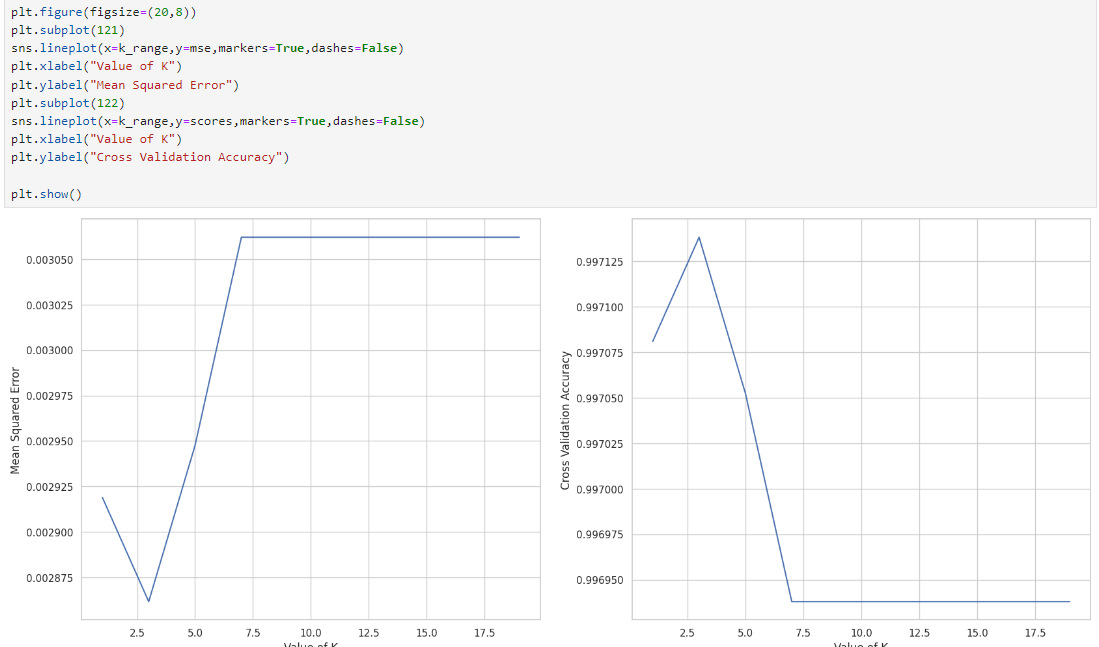
* LogisticRegression(max\_iter=1000, random\_state=42)
* Accuracy: 0.9873
* Recall: 1.0000
* F1 Score: 0.3273



* LogisticRegression(C=1000.0, random\_state=42)
* Accuracy: 0.9738
* Recall: 1.0000
* F1 Score: 0.1908



* KNeighborsClassifier()
* Accuracy: 0.9795
* Recall: 0.7778
* F1 Score: 0.1900



A screenshot of a computer

Description automatically generated

* KNeighborsClassifier(n\_neighbors=3)
* Accuracy: 0.9839
* Recall: 0.7407
* F1 Score: 0.2210



* RandomForestClassifier(max\_depth=9, n\_estimators=50)
* Accuracy: 0.9986
* Recall: 1.0000
* F1 Score: 0.8182

Model: "sequential"

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Layer (type) Output Shape Param #

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dense (Dense) (None, 32) 992

dense\_1 (Dense) (None, 16) 528

dense\_2 (Dense) (None, 8) 136

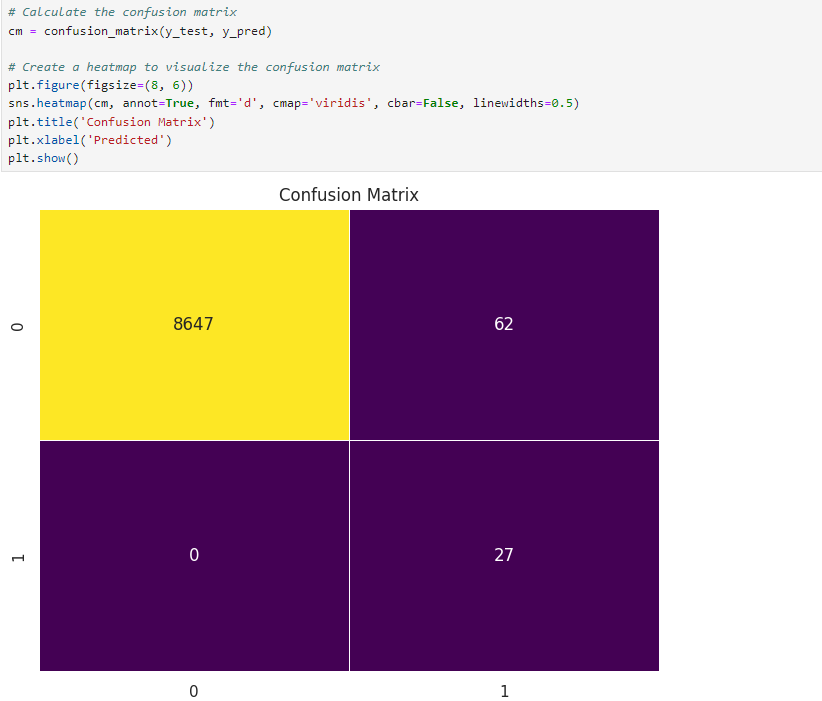
dense\_3 (Dense) (None, 1) 9

=================================================================

Total params: 1665 (6.50 KB)

Trainable params: 1665 (6.50 KB)

Non-trainable params: 0 (0.00 Byte)



A screenshot of a computer code

Description automatically generated

A diagram of red blue and yellow dots

Description automatically generated