Titanic Binary Classification

January 17, 2018

1 Importing the libraries

2 Importing the dataset

3 Feature Scaling

4 Fitting Random Forest Classification to the Training set

oob_score=False, random_state=0, verbose=0, warm_start=False)

5 Predicting the Test set results

```
In [7]: y_pred = classifier.predict(X_test)
```

6 Making the Confusion Matrix to Determine Accuracy

7 Using a Dense Nueral Network

8 Define the Model and Layers

9 Fit the model to the training data

```
Epoch 3/20
891/891 [================ ] - 0s - loss: 0.4230 - acc: 0.8440
Epoch 4/20
Epoch 5/20
Epoch 6/20
Epoch 7/20
Epoch 8/20
Epoch 9/20
Epoch 10/20
Epoch 11/20
Epoch 12/20
Epoch 13/20
Epoch 14/20
Epoch 15/20
Epoch 16/20
Epoch 17/20
Epoch 18/20
Epoch 19/20
Epoch 20/20
```

Out[41]: <keras.callbacks.History at 0x1d26fbff320>

10 Evaluate the model against the test data