```
Layer (type)                    Output Shape              Param #
=================================================================
dense_57 (Dense)                (None, 128)               896

activation_50 (Activation)      (None, 128)               0

dense_58 (Dense)                (None, 32)                4128

activation_51 (Activation)      (None, 32)                0

dense_59 (Dense)                (None, 2)                 66

activation_52 (Activation)      (None, 2)                 0
=================================================================
Total params: 5,090.0
Trainable params: 5,090.0
Non-trainable params: 0.0
```

Training the model

Now, we train the model, with 1000 epochs. Don't worry about the batch_size, we'll learn about it soon.

```python
model.fit(X_train, y_train, epochs=1000, batch_size=100, verbose=0)
```

Evaluating the model

And finally, we can evaluate our model.

```python
score = model.evaluate(X_train, y_train)
```

Results may vary, but you should get somewhere over 70% accuracy.

And there you go, you've trained your first neural network to analyze a dataset. Now, in the following pages, you'll learn many techniques to improve the training process.