

## • Corrida con

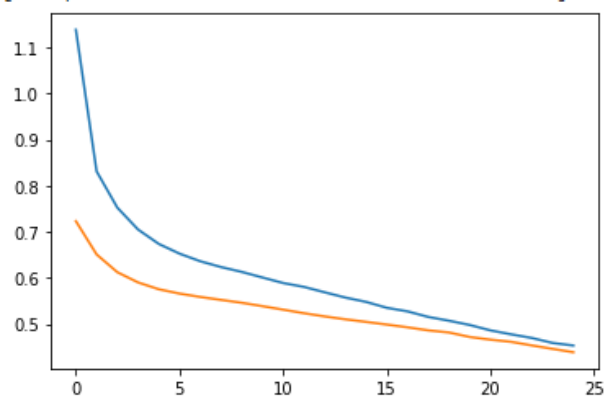
```
model.compile(loss="binary_crossentropy", optimizer="rmsprop",  
metrics=[tf.keras.metrics.Accuracy()])
```

```
{x} myInputSize = features_train.shape[1]  
  
#arquitectura red neuronal  
model = Sequential()  
model.add(Dense(20, input_dim = myInputSize))  
model.add(Activation("sigmoid"))  
model.add(Dense(1))  
model.add(Activation("relu"))  
  
model.compile(loss="binary_crossentropy", optimizer="rmsprop", metrics=[tf.keras.metrics.Accuracy()])
```

```
✓ [49] 3 s  
history = model.fit(features_train, target_train, epochs = 25, validation_split = 0.2)
```

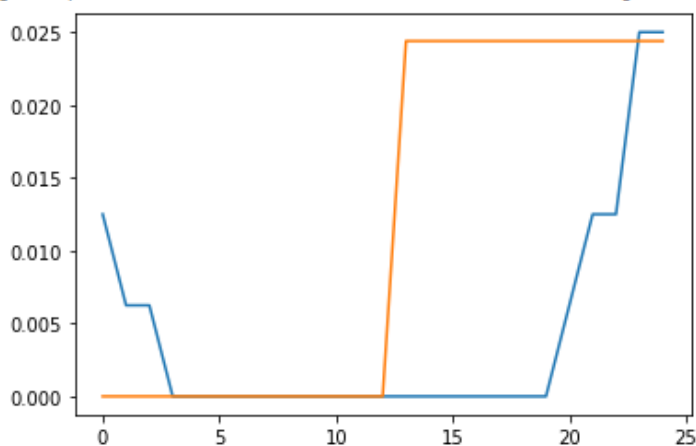
```
✓ [50] 0 s  
plt.plot(history.history["loss"])  
plt.plot(history.history["val_loss"])
```

[<matplotlib.lines.Line2D at 0x7f21b728b210>]



```
✓ [51] 1 s  
plt.plot(history.history["accuracy"])  
plt.plot(history.history["val_accuracy"])
```

[<matplotlib.lines.Line2D at 0x7f21b72459d0>]



```
✓ [56] 0 s  
print(cm)
```

```
[[26  2]  
 [ 3 20]]
```

ACCURACY = 46/51 = 0.9

## ● Corrida con

```
model.compile(loss="binary_crossentropy", optimizer="rmsprop", metrics=["accuracy"])
```

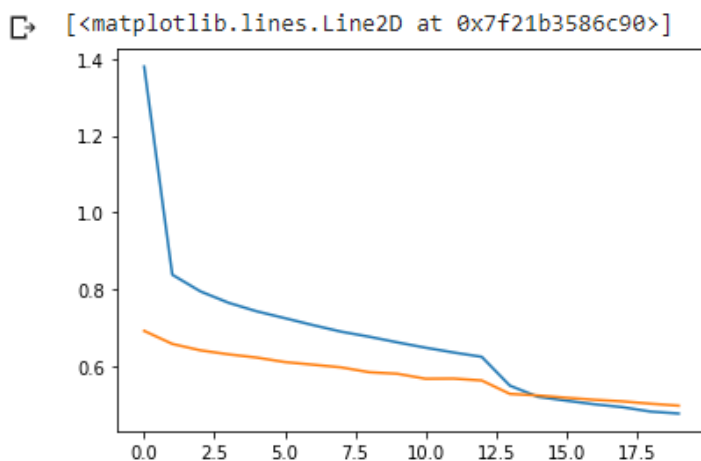
```
[64] myInputSize = features_train.shape[1]

#arquitectura red neuronal
model = Sequential()
model.add(Dense(20, input_dim = myInputSize))
model.add(Activation("sigmoid"))
model.add(Dense(1))
model.add(Activation("relu"))

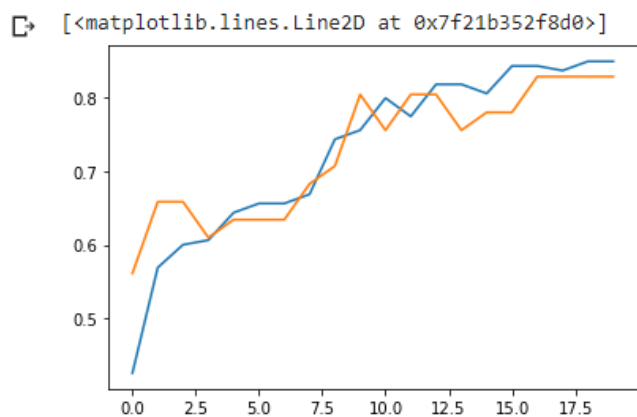
#model.compile(loss="binary_crossentropy", optimizer="rmsprop", metrics=[tf.keras.metrics.Accuracy()])
model.compile(loss="binary_crossentropy", optimizer="rmsprop", metrics=["accuracy"])
```

```
[65] history = model.fit(features_train, target_train, epochs = 20, validation_split = 0.2)
```

```
plt.plot(history.history["loss"])
plt.plot(history.history["val_loss"])
```



```
plt.plot(history.history["accuracy"])
plt.plot(history.history["val_accuracy"])
```



```
print(cm)
```

```
[[19  2]
 [10 20]]
```

ACCURACY = 39/51= 0.765