## **SMS SPAM Classification**

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## Training the Model

```
model.fit(sequences matrix,Y train,batch size=128,epochs=10,
validation split=0.2)
Epoch 1/10
30/30 [=============== ] - 11s 361ms/step - loss: 0.0033
- accuracy: 0.9992 - val loss: 0.1227 - val accuracy: 0.9884
Epoch 2/10
30/30 [============= ] - 8s 273ms/step - loss: 0.0027
- accuracy: 0.9992 - val loss: 0.1363 - val accuracy: 0.9884
30/30 [=============== ] - 8s 277ms/step - loss: 0.0025
- accuracy: 0.9992 - val_loss: 0.1368 - val_accuracy: 0.9905
30/30 [============== ] - 8s 272ms/step - loss: 0.0018
- accuracy: 0.9997 - val loss: 0.1411 - val accuracy: 0.9895
Epoch 5/10
30/30 [============= ] - 8s 272ms/step - loss: 0.0019
- accuracy: 0.9997 - val loss: 0.1418 - val accuracy: 0.9895
Epoch 6/10
30/30 [============== ] - 8s 271ms/step - loss: 0.9085
- accuracy: 0.9570 - val loss: 0.2119 - val accuracy: 0.9863
Epoch 7/10
- accuracy: 0.9987 - val loss: 0.1805 - val accuracy: 0.9905
Epoch 8/10
30/30 [============== ] - 8s 271ms/step - loss: 0.0021
- accuracy: 0.9995 - val loss: 0.1587 - val accuracy: 0.9905
Epoch 9/10
- accuracy: 0.9995 - val loss: 0.1543 - val accuracy: 0.9895
Epoch 10/10
- accuracy: 0.9995 - val loss: 0.1258 - val accuracy: 0.9895
<keras.callbacks.History at 0x7f765a4aa910>
Saving
                the
                               Model
model.save('sms classifier.h5')
Preprocessing the Test Dataset
test sequences = tok.texts to sequences(X test)
```