Sofía Cantú Talamantes A01571120

Tabla comparativa de resultados del Notebook 2

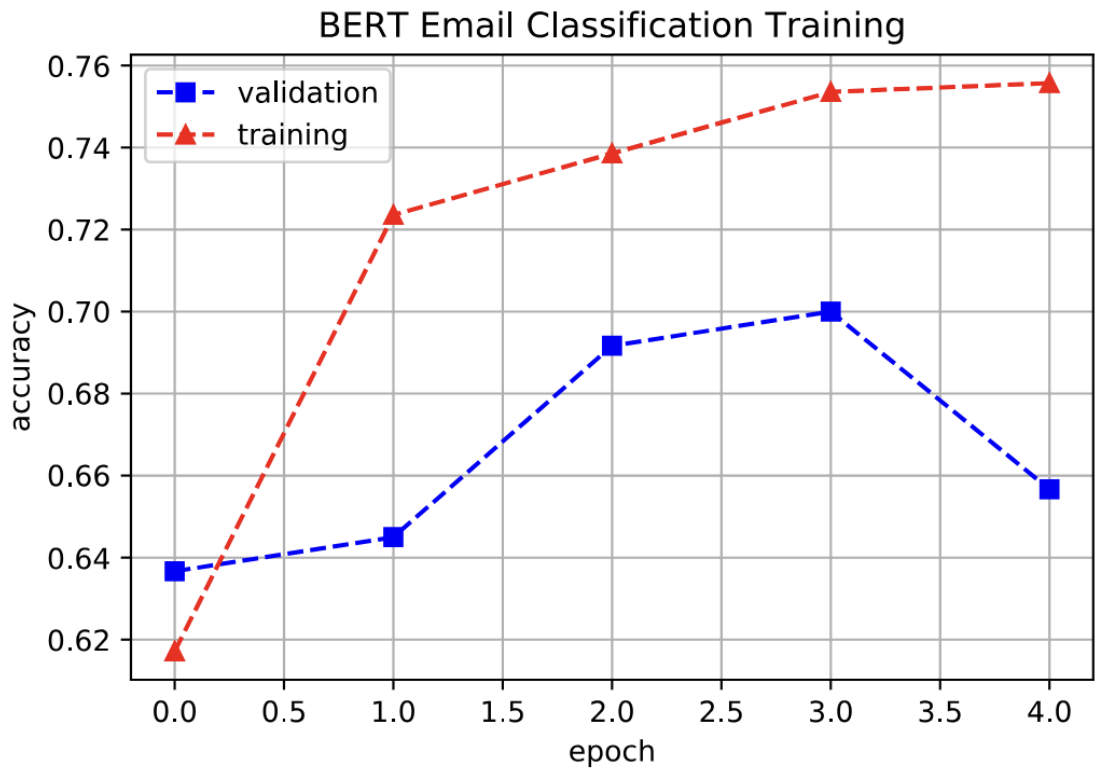
Experimento	Accuracy Entrenamiento	Accuracy Validación	Loss Entrenamiento	Loss Validación
A	0.7679	0.7000	0.4677	0.5700
B	0.8064	0.7917	0.4359	0.4601
C	0.8250	0.7467	0.3975	0.5182
D	0.8279	0.7867	0.3918	0.4474

Donde:
A → Nsamp = 1000, maxtokens = 50, maxtokenlen = 20
B → Nsamp = 1000, maxtokens = 100, maxtokenlen = 100
C → Nsamp = 1000, maxtokens = 200, maxtokenlen = 200
D → Nsamp = 1000, maxtokens = 230, maxtokenlen = 200

4 experimentos

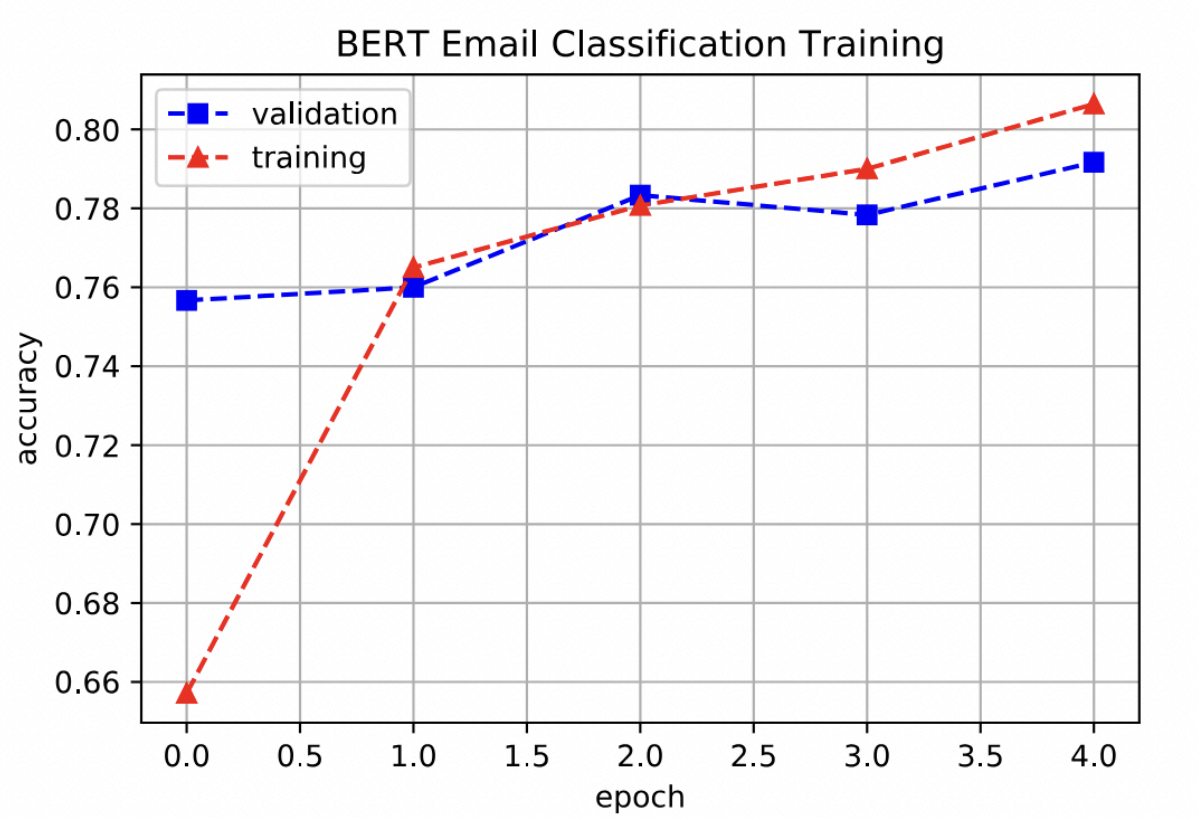
(a) Nsamp = 1000, maxtokens = 50, maxtokenlen = 20

```
Train on 1400 samples, validate on 600 samples
Epoch 1/5
1400/1400 [==============================] - 7s 5ms/sample - loss: 0.6391 - acc: 0.6171 - val_loss: 0.6543 - val_acc: 0.6367
Epoch 2/5
1400/1400 [==============================] - 4s 3ms/sample - loss: 0.5577 - acc: 0.7236 - val_loss: 0.6481 - val_acc: 0.6450
Epoch 3/5
1400/1400 [==============================] - 4s 3ms/sample - loss: 0.5373 - acc: 0.7386 - val_loss: 0.5749 - val_acc: 0.6917
Epoch 4/5
1400/1400 [==============================] - 4s 3ms/sample - loss: 0.4977 - acc: 0.7536 - val_loss: 0.5700 - val_acc: 0.7000
Epoch 5/5
 896/1400 [==================>...........] - ETA: 1s - loss: 0.4677 - acc: 0.7679
```



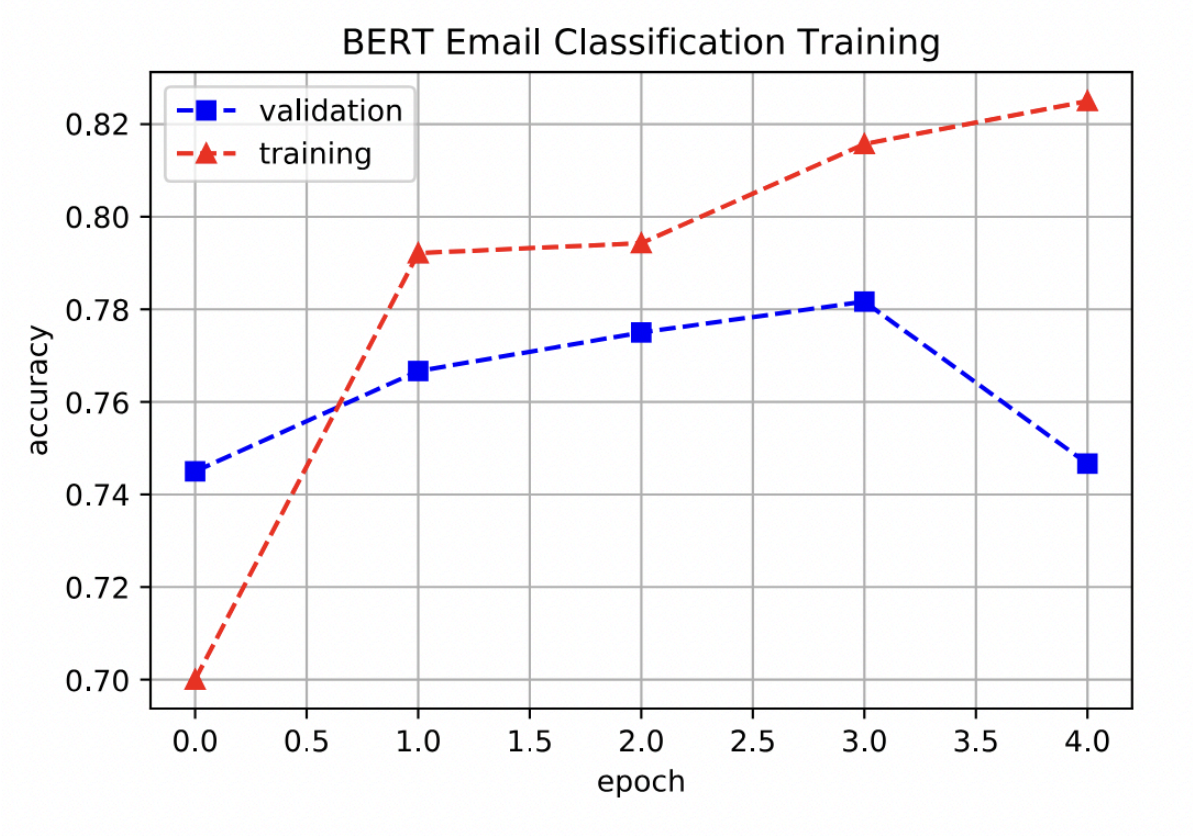
(b) Nsamp = 1000, maxtokens = 100, maxtokenlen = 100

```
Train on 1400 samples, validate on 600 samples
Epoch 1/5
1400/1400 [==============================] - 10s 7ms/sample - loss: 0.6176 - acc: 0.6571 - val_loss: 0.5196 - val_acc: 0.7567
Epoch 2/5
1400/1400 [==============================] - 7s 5ms/sample - loss: 0.5080 - acc: 0.7650 - val_loss: 0.4890 - val_acc: 0.7600
Epoch 3/5
1400/1400 [==============================] - 7s 5ms/sample - loss: 0.4740 - acc: 0.7807 - val_loss: 0.4697 - val_acc: 0.7833
Epoch 4/5
1400/1400 [==============================] - 7s 5ms/sample - loss: 0.4674 - acc: 0.7900 - val_loss: 0.4641 - val_acc: 0.7783
Epoch 5/5
1400/1400 [==============================] - 7s 5ms/sample - loss: 0.4359 - acc: 0.8064 - val_loss: 0.4601 - val_acc: 0.7917
```



(c) Nsamp = 1000, maxtokens = 200, maxtokenlen = 200

```
Train on 1400 samples, validate on 600 samples
Epoch 1/5
1400/1400 [==============================] - 18s 13ms/sample - loss: 0.5787 - acc: 0.7000 - val_loss: 0.5104 - val_acc: 0.7450
Epoch 2/5
1400/1400 [==============================] - 15s 11ms/sample - loss: 0.4636 - acc: 0.7921 - val_loss: 0.4824 - val_acc: 0.7667
Epoch 3/5
1400/1400 [==============================] - 15s 11ms/sample - loss: 0.4506 - acc: 0.7943 - val_loss: 0.4699 - val_acc: 0.7750
Epoch 4/5
1400/1400 [==============================] - 15s 11ms/sample - loss: 0.4095 - acc: 0.8157 - val_loss: 0.4600 - val_acc: 0.7817
Epoch 5/5
1400/1400 [==============================] - 15s 11ms/sample - loss: 0.3975 - acc: 0.8250 - val_loss: 0.5182 - val_acc: 0.7467
```



(d) Nsamp = 1000, maxtokens = 230, maxtokenlen = 200

```
Train on 1400 samples, validate on 600 samples
Epoch 1/5
1400/1400 [==============================] - 22s 16ms/sample - loss: 0.5815 - acc: 0.6971 - val_loss: 0.4962 - val_acc: 0.7650
Epoch 2/5
1400/1400 [==============================] - 18s 13ms/sample - loss: 0.4513 - acc: 0.7950 - val_loss: 0.5080 - val_acc: 0.7683
Epoch 3/5
1400/1400 [==============================] - 18s 13ms/sample - loss: 0.4253 - acc: 0.7921 - val_loss: 0.4635 - val_acc: 0.7767
Epoch 4/5
1400/1400 [==============================] - 18s 13ms/sample - loss: 0.4057 - acc: 0.8086 - val_loss: 0.4578 - val_acc: 0.7850
Epoch 5/5
1400/1400 [==============================] - 18s 13ms/sample - loss: 0.3918 - acc: 0.8279 - val_loss: 0.4474 - val_acc: 0.7867
```