

Instituto Tecnológico de Estudios Superiores de Monterrey CAMPUS QUERÉTARO

Desarrollo de aplicaciones avanzadas de ciencias computacionales
TC3002B.201

Alumno(a):

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Fecha: 21/04/2024

Artist Identification

train_model

Label: 0.0







Mostrar el resumen del modelo
model.summary()

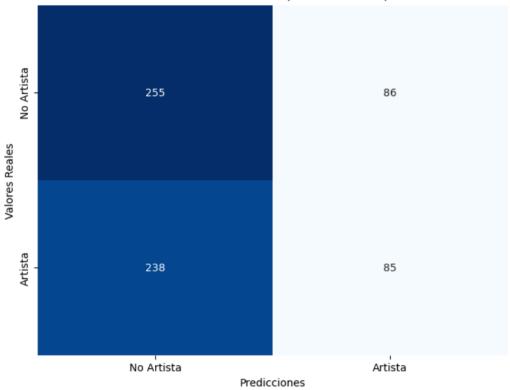
Layer (type)	Output Shape	Param #
resnet50 (Functional)	(None, None, None, 2048)	23587712
global_average_pooling2d (GlobalAveragePooling2D)	(None, 2048)	0
dense (Dense)	(None, 512)	1049088
dense_1 (Dense)	(None, 1)	513

Total params: 24637313 (93.98 MB)

Trainable params: 1049601 (4.00 MB)
Non-trainable params: 23587712 (89.98 MB)

```
- 445s 22s/step - loss: 0.8010 - acc: 0.5346 - val_loss: 0.6568 - val_acc: 0.6250
Epoch 2/10
21/21 [===:
Epoch 3/10
                                           18s 878ms/step - loss: 0.6315 - acc: 0.6596 - val_loss: 0.5847 - val_acc: 0.6739
21/21 [====
Epoch 5/10
                                         - 19s 884ms/step - loss: 0.6625 - acc: 0.6084 - val_loss: 0.6040 - val_acc: 0.6630
21/21 [====
Epoch 6/10
                                           19s 872ms/step - loss: 0.5876 - acc: 0.7123 - val_loss: 0.5527 - val_acc: 0.7283
21/21 [====
Epoch 7/10
21/21 [====
                                           18s 860ms/step - loss: 0.5715 - acc: 0.7244 - val_loss: 0.5738 - val_acc: 0.6957
                                           19s 911ms/step - loss: 0.5711 - acc: 0.7063 - val_loss: 0.5460 - val_acc: 0.7283
Epoch 8/10
                                           18s 869ms/step - loss: 0.5601 - acc: 0.7184 - val_loss: 0.5414 - val_acc: 0.7120
Epoch 9/10
                                         - 18s 866ms/step - loss: 0.5716 - acc: 0.7154 - val_loss: 0.5732 - val_acc: 0.7011
Epoch 10/10
                          =========] - 20s 915ms/step - loss: 0.5568 - acc: 0.7259 - val_loss: 0.5513 - val_acc: 0.7120
21/21 [===
```





Reporte de clasificación (Entrenamiento):						
	precision	recall	f1-score	support		
avogado6	0.52	0.75	0.61	341		
other_artists	0.50	0.26	0.34	323		
accuracy			0.51	664		
macro avg	0.51	0.51	0.48	664		
weighted avg	0.51	0.51	0.48	664		

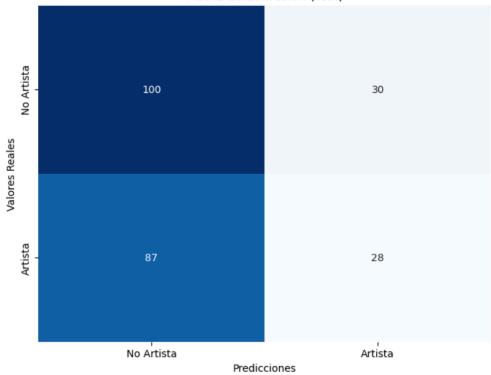
test_model







Matriz de Confusión (Test)



Reporte de clasificación (Test):						
	precision	recall	f1-score	support		
avogado6	0.53	0.77	0.63	130		
other_artists	0.48	0.24	0.32	115		
accuracy			0.52	245		
macro avg	0.51	0.51	0.48	245		
weighted avg	0.51	0.52	0.49	245		



Predicción: 1.0, Real: 1.0

