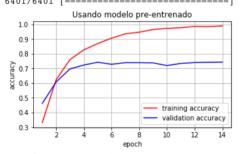
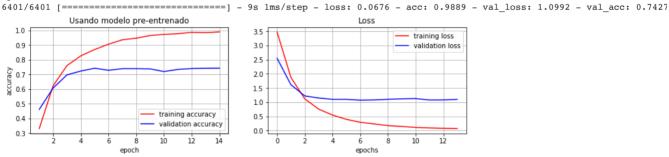
Model: "sequential_4"			
Layer (type)	Output Shape	Param #	
xception (Model)	(None, 4, 4, 2048)	20861480	
global_average_pooling2d	_4 ((None, 2048)	0	
dense_7 (Dense)	(None, 2048)	4196352	
dropout_4 (Dropout)	(None, 2048)	0	
dense_8 (Dense)	(None, 102)	208998	
Total params: 25,266,830 Trainable params: 9,154, Non-trainable params: 16	150		
Creando subset de datos Creando juegos de datos Creando datos de train, Datos de train, validate	de train, validate y test validate y test		
Split de Entrenamiento, Entrenando el modelo Train on 6401 samples, v Epoch 1/14	Validación y prueba: 6401, alidate on 1372 samples	1372, 1372	
6401/6401 [======= Epoch 2/14	======] - 21s 3r	ns/step - loss:	3.4755 - acc: 0.3314 - val_loss: 2.5487 - val_acc: 0.462
-	======] - 9s 1ms	s/step - loss:	1.8714 - acc: 0.6226 - val_loss: 1.6146 - val_acc: 0.6071
Epoch 3/14			
	======] - 9s 1ms	s/step - loss:	1.1153 - acc: 0.7599 - val_loss: 1.2193 - val_acc: 0.6968
Epoch 4/14	0g 1mg	/atom loage	0.7551 - acc: 0.8263 - val loss: 1.1468 - val acc: 0.7230
Epoch 5/14		1, aceh - 1088:	0.7351 - acc. 0.0203 - vai_toss. 1.1400 - vai_acc: 0.7250
-	1 0-1		0 5455
Epoch 6/14	======= - 9s 1ms	s/step - loss:	0.5455 - acc: 0.8692 - Val 1088: 1.0988 - Val acc: 0.7420
	=======	s/step - loss:	0.5455 - acc: 0.8692 - val_loss: 1.0988 - val_acc: 0.7420
6401/6401 [========	-	_	0.3945 - acc: 0.9056 - val_loss: 1.0988 - val_acc: 0.7281
6401/6401 [======= Epoch 7/14	-	_	
Epoch 7/14 6401/6401 [=======	=====] - 9s 1ms	s/step - loss:	
Epoch 7/14 6401/6401 [======= Epoch 8/14	=====] - 9s 1ms	s/step - loss: s/step - loss:	0.3945 - acc: 0.9056 - val_loss: 1.0998 - val_acc: 0.7281 0.2909 - acc: 0.9356 - val_loss: 1.0718 - val_acc: 0.7391
Epoch 7/14 6401/6401 [======== Epoch 8/14 6401/6401 [========	=====] - 9s 1ms	s/step - loss: s/step - loss:	0.3945 - acc: 0.9056 - val_loss: 1.0998 - val_acc: 0.7281
Epoch 7/14 6401/6401 [======= Epoch 8/14 6401/6401 [======= Epoch 9/14	======] - 9s 1ms ======] - 9s 1ms	s/step - loss: s/step - loss: s/step - loss:	0.3945 - acc: 0.9056 - val_loss: 1.0998 - val_acc: 0.7281 0.2909 - acc: 0.9356 - val_loss: 1.0718 - val_acc: 0.7391 0.2331 - acc: 0.9464 - val_loss: 1.0787 - val_acc: 0.7391
Epoch 7/14 6401/6401 [====================================	======] - 9s 1ms ======] - 9s 1ms	s/step - loss: s/step - loss: s/step - loss:	0.3945 - acc: 0.9056 - val_loss: 1.0998 - val_acc: 0.7281 0.2909 - acc: 0.9356 - val_loss: 1.0718 - val_acc: 0.7391
Epoch 7/14 6401/6401 [====================================	======================================	s/step - loss: s/step - loss: s/step - loss: s/step - loss:	0.3945 - acc: 0.9056 - val_loss: 1.0998 - val_acc: 0.7281 0.2909 - acc: 0.9356 - val_loss: 1.0718 - val_acc: 0.7391 0.2331 - acc: 0.9464 - val_loss: 1.0787 - val_acc: 0.7391 0.1736 - acc: 0.9647 - val_loss: 1.1004 - val_acc: 0.7376
Epoch 7/14 6401/6401 [====================================	======================================	s/step - loss: s/step - loss: s/step - loss: s/step - loss:	0.3945 - acc: 0.9056 - val_loss: 1.0998 - val_acc: 0.7281 0.2909 - acc: 0.9356 - val_loss: 1.0718 - val_acc: 0.7391 0.2331 - acc: 0.9464 - val_loss: 1.0787 - val_acc: 0.7391





Exactitud en subconjunto de test: Predict loss: 1.047851194098114 Predict accuracy: 0.7463556851311953 Exactitud sobre todo el dataset: Predict loss: 0.7925544891290534 Predict accuracy: 0.8008747949112693

Modelo guardado en: /content/drive/My Drive/MAIR-Master/07MAIR-Actividad1/modelo_pesos_XCEPTION-FT_1.hdf5

Resultados del Fine-Tuning

Epoch 13/14

6401/6401 [= Epoch 14/14

El fine tuning mejoró bastante el modelo basado en Xception pero aún así no llegó a mejorar a la VGG16.

Experimento	Muestras*Clase	Optimizador	Clasificador	Batch Size	epocas	Tiempo Entrenamiento	Exac. Test	Exact. Full	Loss Test	Loss Full
XCEPTION-FT_1	1000	Adam	XCEPTION-5	64	14	147seg.	75%	80%	1.05	0.79

07MAIR_XCEPTION-FT-1.pdf

Otras pruebas (solo de referencia)