```
Capa input 8 congelada...
Capa block1 conv1 congelada...
Capa block1_conv2 congelada...
Capa block1_pool congelada...
Capa block2 conv1 congelada...
Capa block2_conv2 congelada...
Capa block2_pool congelada...
Capa block3 conv1 congelada...
Capa block3_conv2 congelada...
Capa block3 conv3 congelada...
Capa block3_pool congelada...
Capa block4_conv1 congelada...
Capa block4 conv2 congelada...
Capa block4_conv3 congelada...
Capa block4_pool congelada...
Model: "sequential 8"
```

Layer (type)	Output	Shape	Param #
vgg16 (Model)	(None,	4, 4, 512)	14714688
flatten_8 (Flatten)	(None,	8192)	0
dense_22 (Dense)	(None,	1024)	8389632
dense_23 (Dense)	(None,	1024)	1049600
dropout_8 (Dropout)	(None,	1024)	0
dense_24 (Dense)	(None,	102)	104550

Total params: 24,258,470 Trainable params: 16,623,206 Non-trainable params: 7,635,264

```
Creando subset de datos ...
```

Creando juegos de datos de train, validate y test ...

Creando datos de train, validate y test ...

Datos de train, validate y test creados.

Split de Entrenamiento, Validación y prueba: 6401, 1372, 1372

Entrenando el modelo...

Train on 6401 samples, validate on 1372 samples

Epoch 1/11

6401/6401 [============] - 9s 1ms/step - loss: 2.7660 - acc: 0.4126 - val loss: 1.5333 - val acc: 0.6217 Epoch 2/11 6401/6401 [============] - 8s 1ms/step - loss: 1.2022 - acc: 0.7047 - val loss: 0.8400 - val acc: 0.7894 Epoch 3/11 Epoch 4/11

6401/6401 [= Epoch 5/11

6401/6401 [============] - 8s 1ms/step - loss: 0.4133 - acc: 0.8850 - val loss: 0.5502 - val acc: 0.8550 Epoch 6/11 6401/6401 [============] - 8s 1ms/step - loss: 0.2618 - acc: 0.9264 - val loss: 0.5252 - val acc: 0.8528

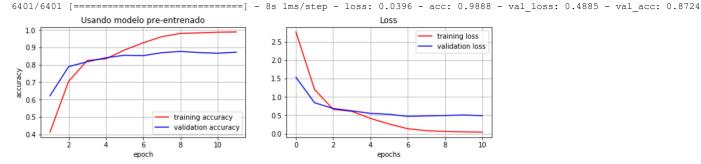
Epoch 7/11 6401/6401 [

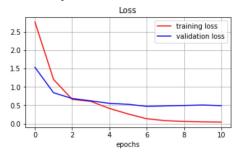
Epoch 8/11 6401/6401 [= Epoch 9/11

6401/6401 [=

Epoch 10/11 6401/6401 [=

Epoch 11/11





Exactitud en subconjunto de test: Predict loss: 0.5292695821547995 Predict accuracy: 0.875364431313106 Exactitud sobre todo el dataset:

Predict loss: 0.15777038547415828 Predict accuracy: 0.9617277200656096

Pesos del modelo guardados en: /content/drive/My Drive/MAIR-Master/07MAIR-Actividad1/pesos_VGG16-FT_3_2.h5 Modelo guardado en: /content/drive/My Drive/MAIR-Master/07MAIR-Actividad1/modelo_pesos_VGG16-FT_3_2.hdf5

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