

## Taller 2

### Carla Rendón

1)

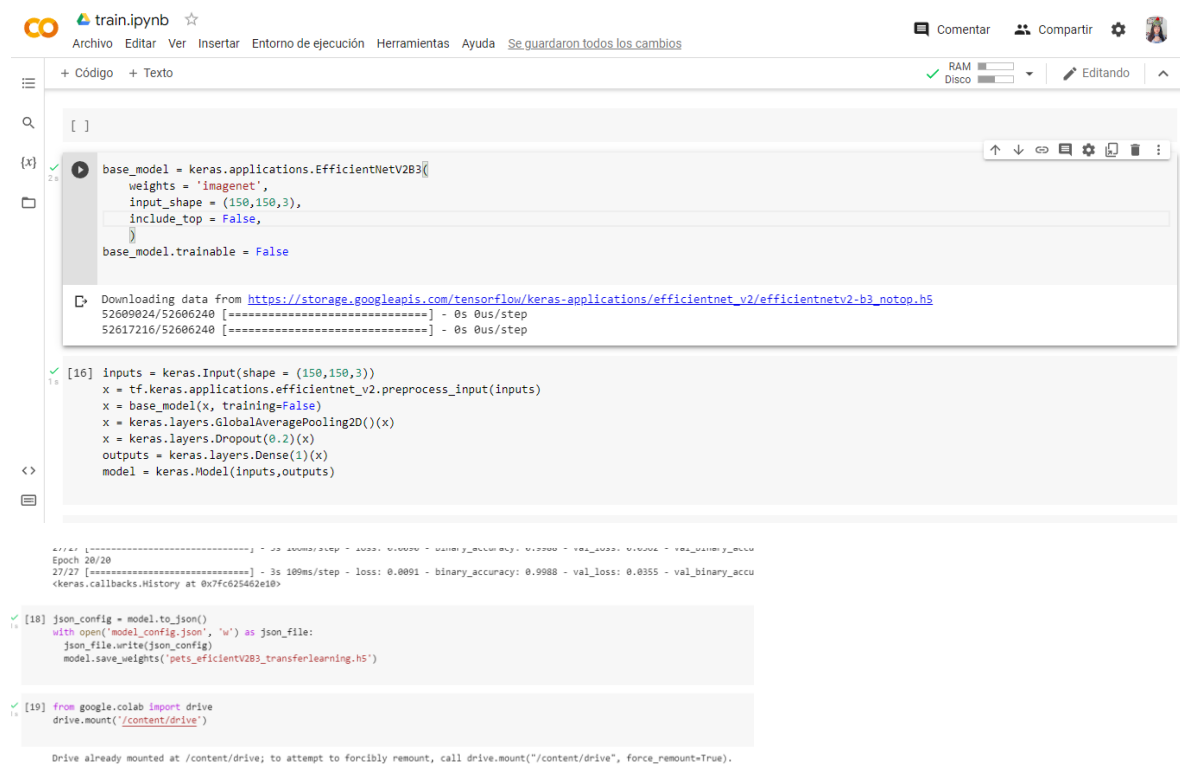
Link Git:

[https://github.com/csofia1408/taller2\\_mlproyect](https://github.com/csofia1408/taller2_mlproyect)

### 2) Se utilizó el modelo

EfficientNetV2B3	59	82,0%	95,8%	n
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### 2) Definición del Modelo base en train



```
[ ]
base_model = keras.applications.EfficientNetV2B3(
    weights = 'imagenet',
    input_shape = (150,150,3),
    include_top = False,
)
base_model.trainable = False

Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/efficientnet_v2/efficientnetv2-b3_notop.h5
52609024/52606240 [=====] - 0s 0us/step
52617216/52606240 [=====] - 0s 0us/step

[16] inputs = keras.Input(shape = (150,150,3))
x = tf.keras.applications.efficientnet_v2.preprocess_input(inputs)
x = base_model(x, training=False)
x = keras.layers.GlobalAveragePooling2D()(x)
x = keras.layers.Dropout(0.2)(x)
outputs = keras.layers.Dense(1)(x)
model = keras.Model(inputs,outputs)

Epoch 20/20
27/27 [=====] - 3s 109ms/step - loss: 0.0091 - binary_accuracy: 0.9988 - val_loss: 0.0355 - val_binary_accu
<keras.callbacks.History at 0x7fc025462e18>

[18] json_config = model.to_json()
with open('model_config.json', 'w') as json_file:
    json_file.write(json_config)
model.save_weights('pets_efficientv2b3_transferlearning.h5')

[19] from google.colab import drive
drive.mount('/content/drive')

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).
```

```
[ ]
```

```
[22] with open('model_config.json') as json_file:  
      json_config = json_file.read()  
      model = keras.models.model_from_json(json_config)  
      model.load_weights('pets_eficientV2B3_transferlearning.h5')
```

```
[23] data_path = '/content/drive/MyDrive/ PI_MLProject/Data/cats_vs_dogs_small'
```

### 3) Pantallazos de la app en django donde se prueba el modelo con alguna foto entregada por ustedes.



#### Welcome to the Pet Classifier App

Seleccionar archivo Ninguno archivo selec.

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