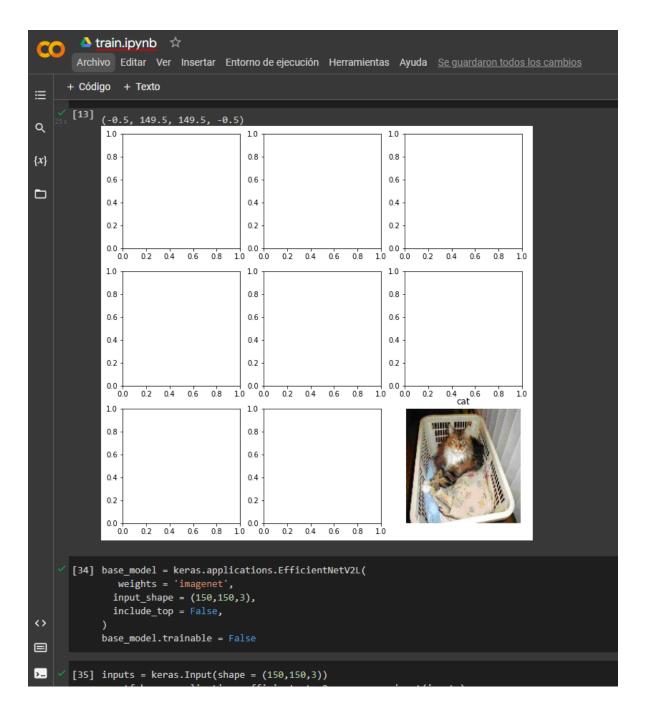


```
📤 train.ipynb 🛮 🛣
 Archivo Editar Ver Insertar Entorno de ejecución Herramientas Ayuda Se guardaron todos lo
      + Código + Texto
            training_path = os.path.join(data_path,'train')
       [11]
            training set = image dataset from directory(training path,
Q
            shuffle=True,
            batch size=32,
\{x\}
            image_size=(150, 150),
            validation_split = 0.2,
            subset = 'training',
seed = 1234,
            validation_set = image_dataset_from_directory(training_path,
            shuffle=True,
            batch_size=32,
            image_size=(150, 150),
            validation_split = 0.2,
            subset = 'validation',
            seed = 1234,
            Found 1066 files belonging to 2 classes.
            Using 853 files for training.
            Found 1066 files belonging to 2 classes.
            Using 213 files for validation.
      [12] training set.class names
            ['cat', 'dog']
      [13] class names = training set.class names
            plt.figure(figsize=(10, 10))
            for images, labels in training set.take(1):
              for i in range(9):
                ax = plt.subplot(3, 3, i + 1)
            plt.imshow(images[i].numpy().astype("uint8"))
            plt.title(class names[labels[i]])
            plt.axis("off")
            (-0.5, 149.5, 149.5, -0.5)
<>
             1.0
                                       1.0
                                                                  1.0
0.8
                                       0.8
                                                                  0.8
             0.6
                                       0.6
                                                                  0.6
```



```
≜ train.ipynb ☆
           Archivo Editar Ver Insertar Entorno de ejecución Herramientas Ayuda Se guardaron todos los cambios
         + Código + Texto
          [34] base_model = keras.applications.EfficientNetV2L(
                    weights = 'imagenet',
input_shape = (150,150,3),
include_top = False,
base model.trainable = False
         [35] 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.GlobalAveragePooling20()(x)
                 x = keras.layers.Dropout(0.2)(x)
outputs = keras.layers.Dense(1)(x)
                  model = keras.Model(inputs,outputs)
          Haz doble clic (o ingresa) para editar
         [36] model.compile(optimizer='adam', loss =tf.keras.losses.BinaryCrossentropy(from_logits = True),metrics = keras.metrics.BinaryAccuracy())
model.fit(training_set, epochs = 20, validation_data = validation_set)
                 Epoch 1/20
                 27/27 [----
Epoch 2/28
27/27 [----
Epoch 3/28
27/27 [----
Epoch 4/28
27/27 [----
Epoch 5/28
27/27 [----
Epoch 7/28
27/27 [----
Epoch 8/28
27/27 [----
Epoch 9/28
27/27 [----
Epoch 9/28
27/27 [----
Epoch 9/28
27/27 [----
                                                         :======] - 9s 316ms/step - loss: 0.0631 - binary_accuracy: 0.9637 - val_loss: 0.0784 - val_binary_accuracy: 0.9343
>_
```