- 1 C:\Users\Usuario\AppData\Local\Programs\Python\
 Python311\python.exe "C:\Users\Usuario\
 PycharmProjects\AYR_2024_1\Unidad 2\
 Intro_ConvolutionalNeuronalNetwork\entrenar.py"
- 2 2024-02-19 13:06:37.515873: I tensorflow/core/util/port.cc:113] oneDNN custom operations are on. You may see slightly different numerical results due to floating-point round-off errors from different computation orders. To turn them off, set the environment variable `TF_ENABLE_ONEDNN_OPTS=0`.
- 3 WARNING:tensorflow:From C:\Users\Usuario\AppData\
 Local\Programs\Python\Python311\Lib\site-packages\
 keras\src\losses.py:2976: The name tf.losses.
 sparse_softmax_cross_entropy is deprecated. Please
 use tf.compat.v1.losses.sparse_softmax_cross_entropy
 instead.

4

5 WARNING:tensorflow:From C:\Users\Usuario\AppData\
Local\Programs\Python\Python311\Lib\site-packages\
keras\src\backend.py:277: The name tf.
reset_default_graph is deprecated. Please use tf.
compat.v1.reset_default_graph instead.

6

- 7 Found 100 images belonging to 2 classes.
- 8 Found 60 images belonging to 2 classes.
- 9 2024-02-19 13:06:42.909063: I tensorflow/core/platform/cpu_feature_guard.cc:182] This TensorFlow binary is optimized to use available CPU instructions in performance-critical operations.
- 10 To enable the following instructions: SSE SSE2 SSE3 SSE4.1 SSE4.2 AVX2 FMA, in other operations, rebuild TensorFlow with the appropriate compiler flags.
- 11 WARNING:tensorflow:From C:\Users\Usuario\AppData\
 Local\Programs\Python\Python311\Lib\site-packages\
 keras\src\layers\pooling\max_pooling2d.py:161: The
 name tf.nn.max_pool is deprecated. Please use tf.nn.
 max_pool2d instead.

12

- 13 Epoch 1/15
- 14 WARNING:tensorflow:From C:\Users\Usuario\AppData\
 Local\Programs\Python\Python311\Lib\site-packages\

```
14 keras\src\utils\tf_utils.py:492: The name tf.ragged.
  RaggedTensorValue is deprecated. Please use tf.compat
  .v1.ragged.RaggedTensorValue instead.
15
16 WARNING:tensorflow:From C:\Users\Usuario\AppData\
  Local\Programs\Python\Python311\Lib\site-packages\
  keras\src\engine\base_layer_utils.py:384: The name tf
  .executing_eagerly_outside_functions is deprecated.
  Please use tf.compat.v1.
  executing_eagerly_outside_functions instead.
17
18 20/20 [============= ] - 29s 1s/step
   - loss: 4.0564 - accuracy: 0.4655 - val_loss: 1.7405
   - val accuracy: 0.5333
19 Epoch 2/15
20 20/20 [============ ] - 30s 2s/step
   - loss: 0.4345 - accuracy: 0.8333 - val_loss: 0.2775
   - val_accuracy: 0.9000
21 Epoch 3/15
22 20/20 [=========== ] - 29s 1s/step
   - loss: 0.0355 - accuracy: 1.0000 - val_loss: 0.3145
   - val_accuracy: 0.9667
23 Epoch 4/15
24 20/20 [============= ] - 30s 1s/step
   - loss: 0.0262 - accuracy: 0.9833 - val_loss: 0.7478
   - val_accuracy: 0.9000
25 Epoch 5/15
- loss: 0.0024 - accuracy: 1.0000 - val_loss: 0.4980
   - val_accuracy: 0.9333
27 Epoch 6/15
28 20/20 [============= ] - 26s 1s/step
   - loss: 0.0011 - accuracy: 1.0000 - val_loss: 0.5595
   - val_accuracy: 0.9333
29 Epoch 7/15
30 20/20 [============ ] - 25s 1s/step
   - loss: 0.0019 - accuracy: 1.0000 - val_loss: 0.6940
   - val_accuracy: 0.9000
31 Epoch 8/15
32 20/20 [============ ] - 24s 1s/step
   - loss: 4.7223e-04 - accuracy: 1.0000 - val_loss: 0.
```

```
32 5558 - val_accuracy: 0.9333
33 Epoch 9/15
34 20/20 [============== ] - 24s 1s/step
   - loss: 2.3128e-04 - accuracy: 1.0000 - val_loss: 0.
  9322 - val_accuracy: 0.9000
35 Epoch 10/15
36 20/20 [============= ] - 28s 1s/step
   - loss: 1.9629e-04 - accuracy: 1.0000 - val_loss: 1.
  3630 - val_accuracy: 0.8667
37 Epoch 11/15
38 20/20 [============ ] - 26s 1s/step
   - loss: 0.0018 - accuracy: 1.0000 - val_loss: 0.9871
   - val_accuracy: 0.8667
39 Epoch 12/15
40 20/20 [============= ] - 25s 1s/step
   - loss: 0.0020 - accuracy: 1.0000 - val_loss: 0.6594
   - val_accuracy: 0.9000
41 Epoch 13/15
42 20/20 [================ ] - 24s 1s/step
   - loss: 4.0546e-04 - accuracy: 1.0000 - val_loss: 0.
  6426 - val_accuracy: 0.9333
43 Epoch 14/15
44 20/20 [============= ] - 25s 1s/step
   - loss: 5.4059e-04 - accuracy: 1.0000 - val_loss: 0.
  9367 - val_accuracy: 0.9000
45 Epoch 15/15
46 20/20 [============= ] - 24s 1s/step
   - loss: 7.7415e-05 - accuracy: 1.0000 - val_loss: 9.
  1790e-06 - val_accuracy: 1.0000
47 C:\Users\Usuario\AppData\Local\Programs\Python\
  Python311\Lib\site-packages\keras\src\engine\training
  .py:3103: UserWarning: You are saving your model as
  an HDF5 file via `model.save()`. This file format is
  considered legacy. We recommend using instead the
  native Keras format, e.g. `model.save('my_model.keras
  ')`.
48
    saving_api.save_model(
49
50 Process finished with exit code 0
51
```