- 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 11:03:39.041443: 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 11:03:53.240678: 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 1/20
- 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 30/30 [============= ] - 45s 1s/step
   - loss: 6.6353 - accuracy: 0.5795 - val_loss: 0.0613
   - val accuracy: 1.0000
19 Epoch 2/20
20 30/30 [============ ] - 42s 1s/step
   - loss: 0.0692 - accuracy: 0.9773 - val_loss: 1.
  5665e-04 - val_accuracy: 1.0000
21 Epoch 3/20
22 30/30 [============ ] - 39s 1s/step
   - loss: 0.0132 - accuracy: 1.0000 - val_loss: 2.
  4226e-04 - val_accuracy: 1.0000
23 Epoch 4/20
24 30/30 [=========== ] - 39s 1s/step
   - loss: 0.0395 - accuracy: 0.9889 - val_loss: 2.
  7498e-06 - val_accuracy: 1.0000
25 Epoch 5/20
26 30/30 [============== ] - 39s 1s/step
   - loss: 0.0087 - accuracy: 1.0000 - val_loss: 1.
  1032e-04 - val_accuracy: 1.0000
27 Epoch 6/20
28 30/30 [============= ] - 43s 1s/step
   - loss: 3.7651e-04 - accuracy: 1.0000 - val_loss: 3.
  7510e-06 - val_accuracy: 1.0000
29 Epoch 7/20
30 30/30 [============ ] - 40s 1s/step
   - loss: 2.0024e-04 - accuracy: 1.0000 - val_loss: 1.
  7881e-06 - val_accuracy: 1.0000
31 Epoch 8/20
32 30/30 [============== ] - 40s 1s/step
   - loss: 1.2977e-04 - accuracy: 1.0000 - val_loss: 6.
```

```
32 1194e-07 - val_accuracy: 1.0000
33 Epoch 9/20
34 30/30 [============= ] - 40s 1s/step
   - loss: 1.0881e-04 - accuracy: 1.0000 - val_loss: 4.
  5575e-06 - val_accuracy: 1.0000
35 Epoch 10/20
36 30/30 [============= ] - 39s 1s/step
  - loss: 6.0551e-05 - accuracy: 1.0000 - val_loss: 6.
  1905e-06 - val_accuracy: 1.0000
37 Epoch 11/20
38 30/30 [============= ] - 40s 1s/step
   - loss: 6.3430e-05 - accuracy: 1.0000 - val_loss: 1.
  1484e-06 - val_accuracy: 1.0000
39 Epoch 12/20
40 30/30 [============= ] - 41s 1s/step
   - loss: 6.5712e-05 - accuracy: 1.0000 - val_loss: 2.
  4637e-07 - val_accuracy: 1.0000
41 Epoch 13/20
- loss: 5.5679e-04 - accuracy: 1.0000 - val_loss: 1.
  3868e-06 - val_accuracy: 1.0000
43 Epoch 14/20
44 30/30 [============ ] - 44s 1s/step
   - loss: 0.0027 - accuracy: 1.0000 - val_loss: 1.
  5616e-06 - val_accuracy: 1.0000
45 Epoch 15/20
46 30/30 [============= ] - 41s 1s/step
   - loss: 1.9593e-05 - accuracy: 1.0000 - val_loss: 2.
  8610e-07 - val_accuracy: 1.0000
47 Epoch 16/20
48 30/30 [============= ] - 43s 1s/step
   - loss: 2.4275e-06 - accuracy: 1.0000 - val_loss: 3.
  4571e-07 - val_accuracy: 1.0000
49 Epoch 17/20
50 30/30 [============ ] - 39s 1s/step
   - loss: 7.2882e-06 - accuracy: 1.0000 - val_loss: 3.
  4571e-07 - val_accuracy: 1.0000
51 Epoch 18/20
52 30/30 [============ ] - 39s 1s/step
   - loss: 4.6382e-06 - accuracy: 1.0000 - val_loss: 2.
  1458e-07 - val_accuracy: 1.0000
```

```
53 Epoch 19/20
54 30/30 [============ ] - 39s 1s/step
    - loss: 5.2843e-06 - accuracy: 1.0000 - val_loss: 1.
  8676e-07 - val_accuracy: 1.0000
55 Epoch 20/20
56 30/30 [============ ] - 41s 1s/step
   - loss: 2.6578e-06 - accuracy: 1.0000 - val_loss: 1.
  5100e-07 - val_accuracy: 1.0000
57 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
   ')`.
58
    saving_api.save_model(
59
60 Process finished with exit code 0
61
```