- 1 C:\Users\maria\.conda\envs\ai\_env\python.exe C:\Users
  \maria\Desktop\PG\SEM\_IV\Artificial\_Intelligence\
  Project\PSD\nw.py
- 2 2024-06-01 16:46:28.578752: 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\maria\.conda\envs\
  ai\_env\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\maria\.conda\envs\ ai\_env\lib\site-packages\keras\src\backend.py:873: The name tf.get\_default\_graph is deprecated. Please use tf.compat.v1.get\_default\_graph instead.

6

- 7 2024-06-01 16:46:41.304061: I tensorflow/core/platform/cpu\_feature\_guard.cc:182] This TensorFlow binary is optimized to use available CPU instructions in performance-critical operations.
- 8 To enable the following instructions: SSE SSE2 SSE3 SSE4.1 SSE4.2 AVX2 FMA, in other operations, rebuild TensorFlow with the appropriate compiler flags.
- 9 WARNING:tensorflow:From C:\Users\maria\.conda\envs\
  ai\_env\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.

10

11 WARNING:tensorflow:From C:\Users\maria\.conda\envs\
ai\_env\lib\site-packages\keras\src\optimizers\
\_\_init\_\_.py:309: The name tf.train.Optimizer is
deprecated. Please use tf.compat.v1.train.Optimizer
instead.

12

- 13 Epoch 1/40
- 14 WARNING:tensorflow:From C:\Users\maria\.conda\envs\
  ai\_env\lib\site-packages\keras\src\utils\tf\_utils.py:

```
14 492: The name tf.ragged.RaggedTensorValue is
  deprecated. Please use tf.compat.v1.ragged.
  RaggedTensorValue instead.
15
16 WARNING:tensorflow:From C:\Users\maria\.conda\envs\
  ai_env\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 74/74 [============= ] - 90s 1s/step
   - loss: 3.9902 - accuracy: 0.2503 - val_loss: 2.9680
   - val accuracy: 0.4179
19 Epoch 2/40
- loss: 2.8837 - accuracy: 0.3849 - val_loss: 2.4842
   - val_accuracy: 0.5005
21 Epoch 3/40
22 74/74 [=========== ] - 87s 1s/step
   - loss: 2.4904 - accuracy: 0.4614 - val_loss: 2.2664
   - val_accuracy: 0.5662
23 Epoch 4/40
24 74/74 [============ ] - 96s 1s/step
   - loss: 2.2103 - accuracy: 0.5190 - val_loss: 2.0152
   - val_accuracy: 0.5990
25 Epoch 5/40
step - loss: 1.9698 - accuracy: 0.5742 - val_loss: 1.
  9266 - val_accuracy: 0.6259
27 Epoch 6/40
28 74/74 [============== ] - 68s 913ms/
  step - loss: 1.8352 - accuracy: 0.6070 - val_loss: 1.
  8138 - val_accuracy: 0.6567
29 Epoch 7/40
step - loss: 1.6535 - accuracy: 0.6563 - val_loss: 1.
  8005 - val_accuracy: 0.6935
31 Epoch 8/40
step - loss: 1.5829 - accuracy: 0.6725 - val_loss: 1.
```

```
32 7414 - val_accuracy: 0.7005
33 Epoch 9/40
step - loss: 1.4568 - accuracy: 0.6955 - val_loss: 1.
  7589 - val_accuracy: 0.7065
35 Epoch 10/40
step - loss: 1.4426 - accuracy: 0.7143 - val_loss: 1.
  6762 - val_accuracy: 0.7164
37 Epoch 11/40
38 74/74 [============ ] - 71s 961ms/
  step - loss: 1.3892 - accuracy: 0.7303 - val_loss: 1.
  6813 - val_accuracy: 0.7144
39 Epoch 12/40
40 74/74 [============ ] - 68s 922ms/
  step - loss: 1.2736 - accuracy: 0.7680 - val_loss: 1.
  6353 - val_accuracy: 0.7413
41 Epoch 13/40
step - loss: 1.2046 - accuracy: 0.7761 - val_loss: 1.
  6888 - val_accuracy: 0.7333
43 Epoch 14/40
step - loss: 1.2061 - accuracy: 0.7861 - val_loss: 1.
  5402 - val_accuracy: 0.7433
45 Epoch 15/40
step - loss: 1.1455 - accuracy: 0.8049 - val_loss: 1.
  5676 - val_accuracy: 0.7313
47 Epoch 16/40
step - loss: 1.1479 - accuracy: 0.8045 - val_loss: 1.
  4875 - val_accuracy: 0.7672
49 Epoch 17/40
step - loss: 1.0358 - accuracy: 0.8292 - val_loss: 1.
  5531 - val_accuracy: 0.7622
51 Epoch 18/40
step - loss: 1.0333 - accuracy: 0.8369 - val_loss: 1.
  6138 - val_accuracy: 0.7612
```

```
53 Epoch 19/40
step - loss: 1.0072 - accuracy: 0.8392 - val_loss: 1.
  6472 - val_accuracy: 0.7622
55 Epoch 20/40
step - loss: 1.0385 - accuracy: 0.8356 - val_loss: 1.
  6164 - val_accuracy: 0.7512
57 Epoch 21/40
58 74/74 [============== ] - 68s 923ms/
  step - loss: 0.9976 - accuracy: 0.8473 - val_loss: 1.
  6027 - val_accuracy: 0.7562
59 Epoch 22/40
60 74/74 [============ ] - 69s 934ms/
  step - loss: 0.9498 - accuracy: 0.8559 - val_loss: 1.
  6707 - val_accuracy: 0.7731
step - loss: 1.6037 - accuracy: 0.7624
62 Test accuracy: 0.762425422668457
63
64 Process finished with exit code 0
65
```