- PS C:\Users\danie\Desktop\TUNI\PatternRec2\ex5\GTSRB\_subset\_2\GTSRB\_subset\_2> & C:/Users/danie/Anaconda3/python.ex e c:/Users/danie/Desktop/TUNI/PatternRec2/ex5/GTSRB subset 2/GTSRB subset 2/exer6.py
- 2022-04-24 12:50:44.230647: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:59] Could not load dynamic library 'cudart64 101.dll'; dlerror: cudart64 101.dll not found
- 2022-04-24 12:50:44.231090: I tensorflow/stream\_executor/cuda/cudart\_stub.cc:29] Ignore above cudart dlerror if yo u do not have a GPU set up on your machine.
- 2022-04-24 12:50:51.246240: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:59] Could not load dynamic library 'nvcuda.dll'; dlerror: nvcuda.dll not found
- 2022-04-24 12:50:51.246752: W tensorflow/stream\_executor/cuda/cuda\_driver.cc:312] failed call to cuInit: UNKNOWN E RROR (303)
- 2022-04-24 12:50:51.256515: I tensorflow/stream\_executor/cuda/cuda\_diagnostics.cc:169] retrieving CUDA diagnostic information for host: DESKTOP-R7HN06Q
- 2022-04-24 12:50:51.257471: I tensorflow/stream\_executor/cuda/cuda\_diagnostics.cc:176] hostname: DESKTOP-R7HN06Q 2022-04-24 12:50:51.258224: I tensorflow/core/platform/cpu\_feature\_guard.cc:142] This TensorFlow binary is optimiz ed with oneAPI Deep Neural Network Library (oneDNN) to use the following CPU instructions in performance-critical o
- perations: AVX2
- To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.
- 2022-04-24 12:50:51.274215: I tensorflow/compiler/xla/service/service.cc:168] XLA service 0x2d2c6a7e700 initialize d for platform Host (this does not guarantee that XLA will be used). Devices:
- 2022-04-24 12:50:51.274802: I tensorflow/compiler/xla/service/service.cc:176] StreamExecutor device (0): Host, D efault Version

Model: "sequential"

Layer (type)	Output	Shape	Param #
conv2d (Conv2D)	(None,	31, 31, 10)	280
max_pooling2d (MaxPooling2D)	(None,	15, 15, 10)	0
conv2d_1 (Conv2D)	(None,	7, 7, 10)	910
max_pooling2d_1 (MaxPooling2	(None,	3, 3, 10)	0
flatten (Flatten)	(None,	90)	0
dense (Dense)	(None,	1)	91

Total params: 1,281 Trainable params: 1,281

Non-trainable params: 0

```
Epoch 1/20
Epoch 2/20
Epoch 3/20
17/17 [======================= ] - 0s 8ms/step - loss: 0.6594 - accuracy: 0.6755
Epoch 4/20
Epoch 5/20
17/17 [=======================] - 0s 8ms/step - loss: 0.6367 - accuracy: 0.6755
Epoch 6/20
17/17 [=======================] - 0s 8ms/step - loss: 0.6260 - accuracy: 0.6755
Epoch 7/20
17/17 [======================== ] - 0s 7ms/step - loss: 0.6152 - accuracy: 0.6755
Epoch 8/20
17/17 [======================= ] - 0s 8ms/step - loss: 0.6030 - accuracy: 0.6755
Epoch 9/20
17/17 [----- 0.5910 - accuracy: 0.6755
Epoch 10/20
17/17 [========================] - 0s 7ms/step - loss: 0.5772 - accuracy: 0.6755
Epoch 11/20
17/17 [======================= ] - 0s 8ms/step - loss: 0.5622 - accuracy: 0.6907
Epoch 12/20
17/17 [======================== ] - 0s 8ms/step - loss: 0.5468 - accuracy: 0.7021
Epoch 13/20
17/17 [======================== ] - 0s 8ms/step - loss: 0.5291 - accuracy: 0.7192
Epoch 14/20
17/17 [======================== ] - 0s 8ms/step - loss: 0.5111 - accuracy: 0.7400
Epoch 15/20
Epoch 16/20
Epoch 17/20
17/17 [======================== ] - 0s 7ms/step - loss: 0.4559 - accuracy: 0.8387
Epoch 18/20
17/17 [======================== ] - 0s 8ms/step - loss: 0.4380 - accuracy: 0.8425
Epoch 19/20
Epoch 20/20
Model accuracy: 0.8484848484848485
5/5 - 0s - loss: 0.4027 - accuracy: 0.8485
PS C:\Users\danie\Desktop\TUNI\PatternRec2\ex5\GTSRB subset 2\GTSRB subset 2>
```