- 1 F:\Tasarım\Deneme1\venv\Scripts\python.exe F
   :/Tasarım/Deneme1/train.py
- 2 2021-11-13 12:17:51.594443: W tensorflow/ stream\_executor/platform/default/dso\_loader. cc:64] Could not load dynamic library ' cudart64\_110.dll'; dlerror: cudart64\_110.dll not found
- 3 2021-11-13 12:17:51.594657: I tensorflow/ stream\_executor/cuda/cudart\_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.
- 4 2021-11-13 12:18:18.207248: W tensorflow/ stream\_executor/platform/default/dso\_loader. cc:64] Could not load dynamic library ' cudart64\_110.dll'; dlerror: cudart64\_110.dll not found
- 5 2021-11-13 12:18:18.208538: W tensorflow/ stream\_executor/platform/default/dso\_loader. cc:64] Could not load dynamic library ' cublas64\_11.dll'; dlerror: cublas64\_11.dll not found
- 6 2021-11-13 12:18:18.209618: W tensorflow/ stream\_executor/platform/default/dso\_loader. cc:64] Could not load dynamic library ' cublasLt64\_11.dll'; dlerror: cublasLt64\_11. dll not found
- 7 2021-11-13 12:18:18.210720: W tensorflow/ stream\_executor/platform/default/dso\_loader. cc:64] Could not load dynamic library ' cufft64\_10.dll'; dlerror: cufft64\_10.dll not found
- 8 2021-11-13 12:18:18.211847: W tensorflow/ stream\_executor/platform/default/dso\_loader. cc:64] Could not load dynamic library ' curand64\_10.dll'; dlerror: curand64\_10.dll

- 8 not found
- 9 2021-11-13 12:18:18.213410: W tensorflow/ stream\_executor/platform/default/dso\_loader. cc:64] Could not load dynamic library ' cusolver64\_11.dll'; dlerror: cusolver64\_11. dll not found
- 10 2021-11-13 12:18:18.214599: W tensorflow/
  stream\_executor/platform/default/dso\_loader.
  cc:64] Could not load dynamic library '
  cusparse64\_11.dll'; dlerror: cusparse64\_11.
  dll not found
- 11 2021-11-13 12:18:18.216356: W tensorflow/
  stream\_executor/platform/default/dso\_loader.
  cc:64] Could not load dynamic library '
  cudnn64\_8.dll'; dlerror: cudnn64\_8.dll not
  found
- 12 2021-11-13 12:18:18.223388: W tensorflow/core /common\_runtime/gpu/gpu\_device.cc:1835]
  Cannot dlopen some GPU libraries. Please make sure the missing libraries mentioned above are installed properly if you would like to use GPU. Follow the guide at https://www.tensorflow.org/install/gpu for how to download and setup the required libraries for your platform.
- 13 Skipping registering GPU devices...
- 14 2021-11-13 12:18:18.279515: I tensorflow/core /platform/cpu\_feature\_guard.cc:142] This TensorFlow binary is optimized with oneAPI Deep Neural Network Library (oneDNN) to use the following CPU instructions in performance -critical operations: AVX AVX2
- 15 To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.

	Model: "sequential"		
18	Layer (type) Param #	Output Shape	
19	=======================================	==========	
20	conv2d (Conv2D) 64) 640	(None, 42, 11,	
21			
22	batch_normalization (BatchNo 64) 256	(None, 42, 11,	
23			
24	max_pooling2d (MaxPooling2D) ) 0	(None, 21, 6, 64	
25			
26	conv2d_1 (Conv2D) ) 18464	(None, 19, 4, 32	
27			
28	batch_normalization_1 (Batch) 128	(None, 19, 4, 32	
29			
30	max_pooling2d_1 (MaxPooling2) 0	(None, 10, 2, 32	
31	, 		
32	conv2d_2 (Conv2D) ) 4128	(None, 9, 1, 32	
33			

34	<pre>batch_normalization_2 (Batch ) 128</pre>	(None,	9, 1, 32	
35				
36	<pre>max_pooling2d_2 (MaxPooling2 ) 0</pre>	(None,	5, 1, 32	
37				
38	flatten (Flatten) ) 0	(None,	160	
39				
40	dense (Dense) ) 10304	(None,	64	
	dropout (Dropout) ) 0	(None,	64	
43				
	dense_1 (Dense) ) 650	(None,	10	
	======================================	======	=======	
	Total params: 34,698			
	Trainable params: 34,442 Non-trainable params: 256			
49				
50	2021-11-13 12:18:19.160651: I tensorflow/ compiler/mlir_graph_optimization_pass.cc :185] None of the MLIR Optimization Passes are enabled (registered 2)			
	Epoch 1/40			
52	540/540 [===========	:=====	====] -	

```
52 12s 20ms/step - loss: 3.1115 - accuracy: 0.
  1200 - val_loss: 2.6534 - val_accuracy: 0.
  1507
53 Epoch 2/40
10s 19ms/step - loss: 2.7593 - accuracy: 0.
  1554 - val_loss: 2.4750 - val_accuracy: 0.
  1882
55 Epoch 3/40
11s 20ms/step - loss: 2.5902 - accuracy: 0.
  1788 - val_loss: 2.3452 - val_accuracy: 0.
  2211
57 Epoch 4/40
11s 20ms/step - loss: 2.4868 - accuracy: 0.
  2035 - val_loss: 2.2552 - val_accuracy: 0.
  2482
59 Epoch 5/40
11s 21ms/step - loss: 2.3942 - accuracy: 0.
  2242 - val_loss: 2.1747 - val_accuracy: 0.
  2716
61 Epoch 6/40
11s 19ms/step - loss: 2.3185 - accuracy: 0.
  2387 - val_loss: 2.1062 - val_accuracy: 0.
  2967
63 Epoch 7/40
12s 23ms/step - loss: 2.2618 - accuracy: 0.
  2509 - val_loss: 2.0457 - val_accuracy: 0.
  3201
65 Epoch 8/40
```

```
66 10s 19ms/step - loss: 2.1998 - accuracy: 0.
  2742 - val_loss: 1.9929 - val_accuracy: 0.
  3405
67 Epoch 9/40
10s 19ms/step - loss: 2.1530 - accuracy: 0.
  2839 - val_loss: 1.9501 - val_accuracy: 0.
  3551
69 Epoch 10/40
70 540/540 [=========== ] -
  10s 19ms/step - loss: 2.1079 - accuracy: 0.
  2976 - val_loss: 1.8927 - val_accuracy: 0.
  3770
71 Epoch 11/40
10s 19ms/step - loss: 2.0648 - accuracy: 0.
  3160 - val_loss: 1.8597 - val_accuracy: 0.
  3926
73 Epoch 12/40
11s 20ms/step - loss: 2.0189 - accuracy: 0.
  3264 - val_loss: 1.8270 - val_accuracy: 0.
  4062
75 Epoch 13/40
11s 20ms/step - loss: 1.9965 - accuracy: 0.
  3366 - val_loss: 1.7955 - val_accuracy: 0.
  4301
77 Epoch 14/40
11s 20ms/step - loss: 1.9520 - accuracy: 0.
  3501 - val_loss: 1.7599 - val_accuracy: 0.
  4333
79 Epoch 15/40
```

```
80 11s 20ms/step - loss: 1.9186 - accuracy: 0.
  3613 - val_loss: 1.7290 - val_accuracy: 0.
  4411
81 Epoch 16/40
10s 19ms/step - loss: 1.8851 - accuracy: 0.
  3691 - val_loss: 1.7027 - val_accuracy: 0.
  4552
83 Epoch 17/40
10s 19ms/step - loss: 1.8533 - accuracy: 0.
  3811 - val_loss: 1.6719 - val_accuracy: 0.
  4677
85 Epoch 18/40
11s 20ms/step - loss: 1.8309 - accuracy: 0.
  3848 - val_loss: 1.6409 - val_accuracy: 0.
  4724
87 Epoch 19/40
10s 19ms/step - loss: 1.8005 - accuracy: 0.
  3961 - val_loss: 1.6186 - val_accuracy: 0.
  4771
89 Epoch 20/40
11s 20ms/step - loss: 1.7678 - accuracy: 0.
  4113 - val_loss: 1.5894 - val_accuracy: 0.
  4979
91 Epoch 21/40
11s 20ms/step - loss: 1.7450 - accuracy: 0.
  4216 - val_loss: 1.5600 - val_accuracy: 0.
  5083
93 Epoch 22/40
```

```
94 11s 20ms/step - loss: 1.7235 - accuracy: 0.
  4267 - val_loss: 1.5479 - val_accuracy: 0.
  5146
95 Epoch 23/40
10s 19ms/step - loss: 1.6985 - accuracy: 0.
  4360 - val_loss: 1.5286 - val_accuracy: 0.
  5193
97 Epoch 24/40
11s 20ms/step - loss: 1.6819 - accuracy: 0.
  4456 - val_loss: 1.5021 - val_accuracy: 0.
  5214
99 Epoch 25/40
10s 19ms/step - loss: 1.6464 - accuracy: 0.
  4558 - val_loss: 1.4769 - val_accuracy: 0.
  5334
101 Epoch 26/40
11s 20ms/step - loss: 1.6188 - accuracy: 0.
  4639 - val_loss: 1.4452 - val_accuracy: 0.
  5532
103 Epoch 27/40
11s 20ms/step - loss: 1.6029 - accuracy: 0.
  4705 - val_loss: 1.4218 - val_accuracy: 0.
  5568
105 Epoch 28/40
10s 19ms/step - loss: 1.5724 - accuracy: 0.
  4830 - val_loss: 1.4014 - val_accuracy: 0.
  5620
107 Epoch 29/40
```

```
108 10s 19ms/step - loss: 1.5613 - accuracy: 0.
  4845 - val_loss: 1.3841 - val_accuracy: 0.
  5709
109 Epoch 30/40
10s 19ms/step - loss: 1.5359 - accuracy: 0.
  4957 - val_loss: 1.3624 - val_accuracy: 0.
  5808
111 Epoch 31/40
11s 19ms/step - loss: 1.5175 - accuracy: 0.
  5028 - val_loss: 1.3481 - val_accuracy: 0.
  5892
113 Epoch 32/40
11s 21ms/step - loss: 1.5038 - accuracy: 0.
  5056 - val_loss: 1.3223 - val_accuracy: 0.
  6038
115 Epoch 33/40
12s 21ms/step - loss: 1.4851 - accuracy: 0.
  5101 - val_loss: 1.3120 - val_accuracy: 0.
  6043
117 Epoch 34/40
12s 22ms/step - loss: 1.4676 - accuracy: 0.
  5210 - val_loss: 1.2932 - val_accuracy: 0.
  6204
119 Epoch 35/40
11s 21ms/step - loss: 1.4440 - accuracy: 0.
  5292 - val_loss: 1.2738 - val_accuracy: 0.
  6178
121 Epoch 36/40
```

```
122 10s 18ms/step - loss: 1.4348 - accuracy: 0.
   5303 - val_loss: 1.2676 - val_accuracy: 0.
   6230
123 Epoch 37/40
10s 19ms/step - loss: 1.4108 - accuracy: 0.
   5429 - val_loss: 1.2394 - val_accuracy: 0.
   6361
125 Epoch 38/40
10s 19ms/step - loss: 1.4007 - accuracy: 0.
   5437 - val_loss: 1.2272 - val_accuracy: 0.
   6376
127 Epoch 39/40
10s 19ms/step - loss: 1.3797 - accuracy: 0.
   5532 - val_loss: 1.2032 - val_accuracy: 0.
   6429
129 Epoch 40/40
10s 19ms/step - loss: 1.3683 - accuracy: 0.
   5535 - val_loss: 1.1976 - val_accuracy: 0.
   6444
131 67/67 [============= ] - Os
   5ms/step - loss: 1.1748 - accuracy: 0.6548
132 Test error: 1.1748363971710205, test
   accuracy: 0.6547842621803284
133
134 Process finished with exit code 0
135
```