- 1 F:\Tasarım\Deneme1\venv\Scripts\python.exe F
   :/Tasarım/Deneme1/train.py
- 2 2021-11-13 12:06:31.667742: 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 12:06:31.668702: 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 12:07:10.555003: 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 12:07:10.556125: 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 12:07:10.557200: 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 12:07:10.558259: 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 12:07:10.559300: 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 12:07:10.560399: 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 12:07:10.561490: 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 12:07:10.562639: 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 12:07:10.562819: 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 12:07:10.775190: 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		

	batch_normalizat ) 128	ion_2 (Batch	(None,	9, 1, 32	
35					
36	<pre>max_pooling2d_2 ) 0</pre>	(MaxPooling2	(None,	5, 1, 32	
37		 			
38	<pre>flatten (Flatten )</pre>	) 0	(None,	160	
39		·			
40	dense (Dense) )	10304	(None,	64	
41					
42	<pre>dropout (Dropout )</pre>	:) 0	(None,	64	
43					
44	<pre>dense_1 (Dense) )</pre>	650	(None,	10	
45	=======================================	:======= :====	:=====	=======	
46	Total params: 34	, 698			
47	Trainable params: 34,442				
48	Non-trainable params: 256				
49		·			
	2021-11-13 12:07:11.818576: I tensorflow/ compiler/mlir_graph_optimization_pass.cc :185] None of the MLIR Optimization Passes are enabled (registered 2)				
	Epoch 1/50			_	
52	540/540 [======	=========	:=====	====] -	

```
52 12s 19ms/step - loss: 3.0356 - accuracy: 0.
  1174 - val_loss: 2.6828 - val_accuracy: 0.
  1335
53 Epoch 2/50
10s 18ms/step - loss: 2.6935 - accuracy: 0.
  1574 - val_loss: 2.4104 - val_accuracy: 0.
  1981
55 Epoch 3/50
10s 18ms/step - loss: 2.5019 - accuracy: 0.
  1908 - val_loss: 2.2559 - val_accuracy: 0.
  2377
57 Epoch 4/50
10s 18ms/step - loss: 2.4000 - accuracy: 0.
  2086 - val_loss: 2.1543 - val_accuracy: 0.
  2753
59 Epoch 5/50
10s 18ms/step - loss: 2.3131 - accuracy: 0.
  2341 - val_loss: 2.0798 - val_accuracy: 0.
  3060
61 Epoch 6/50
10s 18ms/step - loss: 2.2366 - accuracy: 0.
  2561 - val_loss: 2.0156 - val_accuracy: 0.
  3196
63 Epoch 7/50
10s 18ms/step - loss: 2.1763 - accuracy: 0.
  2691 - val_loss: 1.9643 - val_accuracy: 0.
  3488
65 Epoch 8/50
```

```
66 10s 18ms/step - loss: 2.1056 - accuracy: 0.
  2907 - val_loss: 1.9024 - val_accuracy: 0.
  3697
67 Epoch 9/50
10s 18ms/step - loss: 2.0706 - accuracy: 0.
  3002 - val_loss: 1.8726 - val_accuracy: 0.
  3853
69 Epoch 10/50
70 540/540 [=========== ] -
  10s 18ms/step - loss: 2.0291 - accuracy: 0.
  3193 - val_loss: 1.8314 - val_accuracy: 0.
  4025
71 Epoch 11/50
10s 18ms/step - loss: 1.9884 - accuracy: 0.
  3334 - val_loss: 1.7868 - val_accuracy: 0.
  4213
73 Epoch 12/50
10s 18ms/step - loss: 1.9478 - accuracy: 0.
  3532 - val_loss: 1.7477 - val_accuracy: 0.
  4359
75 Epoch 13/50
10s 18ms/step - loss: 1.9122 - accuracy: 0.
  3603 - val_loss: 1.7200 - val_accuracy: 0.
  4484
77 Epoch 14/50
10s 18ms/step - loss: 1.8843 - accuracy: 0.
  3750 - val_loss: 1.6903 - val_accuracy: 0.
  4614
79 Epoch 15/50
```

```
80 10s 18ms/step - loss: 1.8394 - accuracy: 0.
  3893 - val_loss: 1.6553 - val_accuracy: 0.
  4760
81 Epoch 16/50
10s 18ms/step - loss: 1.8022 - accuracy: 0.
  4000 - val_loss: 1.6378 - val_accuracy: 0.
  4896
83 Epoch 17/50
10s 18ms/step - loss: 1.7794 - accuracy: 0.
  4085 - val_loss: 1.5929 - val_accuracy: 0.
  5083
85 Epoch 18/50
10s 18ms/step - loss: 1.7399 - accuracy: 0.
  4190 - val_loss: 1.5654 - val_accuracy: 0.
  5120
87 Epoch 19/50
10s 18ms/step - loss: 1.7155 - accuracy: 0.
  4371 - val_loss: 1.5387 - val_accuracy: 0.
  5323
89 Epoch 20/50
10s 18ms/step - loss: 1.6900 - accuracy: 0.
  4458 - val_loss: 1.5170 - val_accuracy: 0.
  5349
91 Epoch 21/50
10s 18ms/step - loss: 1.6595 - accuracy: 0.
  4530 - val_loss: 1.4865 - val_accuracy: 0.
  5469
93 Epoch 22/50
```

```
94 10s 19ms/step - loss: 1.6277 - accuracy: 0.
  4665 - val_loss: 1.4623 - val_accuracy: 0.
  5558
95 Epoch 23/50
11s 21ms/step - loss: 1.6209 - accuracy: 0.
  4651 - val_loss: 1.4335 - val_accuracy: 0.
  5626
97 Epoch 24/50
11s 20ms/step - loss: 1.5845 - accuracy: 0.
  4841 - val_loss: 1.4113 - val_accuracy: 0.
  5709
99 Epoch 25/50
11s 20ms/step - loss: 1.5588 - accuracy: 0.
  4954 - val_loss: 1.3939 - val_accuracy: 0.
  5746
101 Epoch 26/50
10s 19ms/step - loss: 1.5391 - accuracy: 0.
  5020 - val_loss: 1.3586 - val_accuracy: 0.
  5949
103 Epoch 27/50
11s 20ms/step - loss: 1.5147 - accuracy: 0.
  5087 - val_loss: 1.3365 - val_accuracy: 0.
  6069
105 Epoch 28/50
11s 20ms/step - loss: 1.4926 - accuracy: 0.
  5215 - val_loss: 1.3339 - val_accuracy: 0.
  6100
107 Epoch 29/50
```

```
108 12s 21ms/step - loss: 1.4646 - accuracy: 0.
  5287 - val_loss: 1.3048 - val_accuracy: 0.
  6225
109 Epoch 30/50
10s 19ms/step - loss: 1.4473 - accuracy: 0.
  5322 - val_loss: 1.2845 - val_accuracy: 0.
  6236
111 Epoch 31/50
11s 20ms/step - loss: 1.4324 - accuracy: 0.
  5419 - val_loss: 1.2629 - val_accuracy: 0.
  6376
113 Epoch 32/50
10s 19ms/step - loss: 1.4148 - accuracy: 0.
  5469 - val_loss: 1.2527 - val_accuracy: 0.
  6418
115 Epoch 33/50
10s 19ms/step - loss: 1.3924 - accuracy: 0.
  5552 - val_loss: 1.2331 - val_accuracy: 0.
  6554
117 Epoch 34/50
10s 19ms/step - loss: 1.3720 - accuracy: 0.
  5618 - val_loss: 1.2126 - val_accuracy: 0.
  6564
119 Epoch 35/50
12s 22ms/step - loss: 1.3554 - accuracy: 0.
  5702 - val_loss: 1.1948 - val_accuracy: 0.
  6621
121 Epoch 36/50
```

```
122 10s 19ms/step - loss: 1.3421 - accuracy: 0.
  5770 - val_loss: 1.1855 - val_accuracy: 0.
  6642
123 Epoch 37/50
11s 21ms/step - loss: 1.3278 - accuracy: 0.
  5802 - val_loss: 1.1604 - val_accuracy: 0.
  6825
125 Epoch 38/50
11s 20ms/step - loss: 1.3028 - accuracy: 0.
  5894 - val_loss: 1.1519 - val_accuracy: 0.
  6752
127 Epoch 39/50
11s 20ms/step - loss: 1.2929 - accuracy: 0.
  5937 - val_loss: 1.1273 - val_accuracy: 0.
  6882
129 Epoch 40/50
12s 22ms/step - loss: 1.2796 - accuracy: 0.
  5960 - val_loss: 1.1164 - val_accuracy: 0.
  6950
131 Epoch 41/50
11s 21ms/step - loss: 1.2676 - accuracy: 0.
  6014 - val_loss: 1.1025 - val_accuracy: 0.
  7013
133 Epoch 42/50
11s 20ms/step - loss: 1.2505 - accuracy: 0.
  6073 - val_loss: 1.0937 - val_accuracy: 0.
  6877
135 Epoch 43/50
```

```
136 11s 20ms/step - loss: 1.2282 - accuracy: 0.
  6149 - val_loss: 1.0824 - val_accuracy: 0.
  7059
137 Epoch 44/50
11s 20ms/step - loss: 1.2220 - accuracy: 0.
  6191 - val_loss: 1.0534 - val_accuracy: 0.
  7127
139 Epoch 45/50
11s 20ms/step - loss: 1.2180 - accuracy: 0.
  6250 - val_loss: 1.0708 - val_accuracy: 0.
  7049
141 Epoch 46/50
11s 19ms/step - loss: 1.1986 - accuracy: 0.
  6239 - val_loss: 1.0325 - val_accuracy: 0.
  7174
143 Epoch 47/50
11s 20ms/step - loss: 1.1801 - accuracy: 0.
  6333 - val_loss: 1.0241 - val_accuracy: 0.
  7216
145 Epoch 48/50
11s 20ms/step - loss: 1.1711 - accuracy: 0.
  6352 - val_loss: 1.0225 - val_accuracy: 0.
  7200
147 Epoch 49/50
11s 20ms/step - loss: 1.1604 - accuracy: 0.
  6418 - val_loss: 1.0120 - val_accuracy: 0.
  7362
149 Epoch 50/50
```

```
150 12s 22ms/step - loss: 1.1496 - accuracy: 0.
   6418 - val_loss: 0.9940 - val_accuracy: 0.
   7362
8ms/step - loss: 0.9964 - accuracy: 0.7345
152 Test error: 0.9963766932487488, test
   accuracy: 0.7345215678215027
153
154 Process finished with exit code 0
155
```