- 1 F:\Tasarım\Deneme1\venv\Scripts\python.exe F
   :/Tasarım/Deneme1/train.py
- 2 2021-11-06 12:24:26.658363: 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 2021-11-06 12:24:26.658736: 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 2021-11-06 12:25:32.477099: 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 2021-11-06 12:25:32.483228: 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 2021-11-06 12:25:32.487590: 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 2021-11-06 12:25:32.491446: 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 2021-11-06 12:25:32.495850: 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 2021-11-06 12:25:32.501070: 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 2021-11-06 12:25:32.504936: 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 2021-11-06 12:25:32.508483: 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 2021-11-06 12:25:32.509223: 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 2021-11-06 12:25:32.558553: 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	max_pooling2d_2 ) 0	(MaxPooling2	(None,	5, 1, 32		
37		·				
38	<pre>flatten (Flatten )</pre>	) 0	(None,	160		
39						
40	dense (Dense) )	10304	(None,	64		
41						
42	dropout (Dropout	· :) 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						
50	2021-11-06 12:25:33.776111: 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 27s 45ms/step - loss: 2.2519 - accuracy: 0.
  2598 - val_loss: 1.6831 - val_accuracy: 0.
  4692
53 Epoch 2/40
24s 45ms/step - loss: 1.5664 - accuracy: 0.
  4825 - val_loss: 1.1921 - val_accuracy: 0.
  6486
55 Epoch 3/40
24s 44ms/step - loss: 1.2229 - accuracy: 0.
  6116 - val_loss: 0.9607 - val_accuracy: 0.
  7185
57 Epoch 4/40
25s 46ms/step - loss: 1.0139 - accuracy: 0.
  6883 - val_loss: 0.7891 - val_accuracy: 0.
  7784
59 Epoch 5/40
24s 45ms/step - loss: 0.8699 - accuracy: 0.
  7377 - val_loss: 0.7092 - val_accuracy: 0.
  8076
61 Epoch 6/40
22s 40ms/step - loss: 0.7646 - accuracy: 0.
  7705 - val_loss: 0.6260 - val_accuracy: 0.
  8243
63 Epoch 7/40
22s 41ms/step - loss: 0.6905 - accuracy: 0.
  7973 - val_loss: 0.5975 - val_accuracy: 0.
  8321
65 Epoch 8/40
```

```
66 22s 41ms/step - loss: 0.6299 - accuracy: 0.
  8182 - val_loss: 0.5371 - val_accuracy: 0.
  8504
67 Epoch 9/40
22s 41ms/step - loss: 0.5923 - accuracy: 0.
  8319 - val_loss: 0.5393 - val_accuracy: 0.
  8525
69 Epoch 10/40
70 540/540 [=========== ] -
  22s 41ms/step - loss: 0.5418 - accuracy: 0.
  8478 - val_loss: 0.5083 - val_accuracy: 0.
  8618
71 Epoch 11/40
23s 43ms/step - loss: 0.5150 - accuracy: 0.
  8575 - val_loss: 0.4624 - val_accuracy: 0.
  8691
73 Epoch 12/40
23s 43ms/step - loss: 0.4909 - accuracy: 0.
  8653 - val_loss: 0.4511 - val_accuracy: 0.
  8743
75 Epoch 13/40
22s 41ms/step - loss: 0.4629 - accuracy: 0.
  8730 - val_loss: 0.4841 - val_accuracy: 0.
  8644
77 Epoch 14/40
21s 38ms/step - loss: 0.4429 - accuracy: 0.
  8810 - val_loss: 0.4241 - val_accuracy: 0.
  8895
79 Epoch 15/40
```

```
80 22s 41ms/step - loss: 0.4233 - accuracy: 0.
  8821 - val_loss: 0.4283 - val_accuracy: 0.
  8837
81 Epoch 16/40
22s 41ms/step - loss: 0.4065 - accuracy: 0.
  8919 - val_loss: 0.4021 - val_accuracy: 0.
  8905
83 Epoch 17/40
22s 41ms/step - loss: 0.3904 - accuracy: 0.
  8975 - val_loss: 0.4133 - val_accuracy: 0.
  8843
85 Epoch 18/40
21s 39ms/step - loss: 0.3734 - accuracy: 0.
  9005 - val_loss: 0.3804 - val_accuracy: 0.
  8931
87 Epoch 19/40
20s 37ms/step - loss: 0.3643 - accuracy: 0.
  9053 - val_loss: 0.3762 - val_accuracy: 0.
  8989
89 Epoch 20/40
21s 38ms/step - loss: 0.3557 - accuracy: 0.
  9079 - val_loss: 0.3500 - val_accuracy: 0.
  9051
91 Epoch 21/40
20s 37ms/step - loss: 0.3436 - accuracy: 0.
  9082 - val_loss: 0.3706 - val_accuracy: 0.
  8952
93 Epoch 22/40
```

```
94 20s 37ms/step - loss: 0.3415 - accuracy: 0.
  9121 - val_loss: 0.3808 - val_accuracy: 0.
  9025
95 Epoch 23/40
20s 37ms/step - loss: 0.3287 - accuracy: 0.
  9163 - val_loss: 0.3554 - val_accuracy: 0.
  9062
97 Epoch 24/40
20s 37ms/step - loss: 0.3167 - accuracy: 0.
  9195 - val_loss: 0.3414 - val_accuracy: 0.
  9098
99 Epoch 25/40
20s 36ms/step - loss: 0.3080 - accuracy: 0.
  9230 - val_loss: 0.3432 - val_accuracy: 0.
  9124
101 Epoch 26/40
21s 39ms/step - loss: 0.3056 - accuracy: 0.
  9220 - val_loss: 0.3732 - val_accuracy: 0.
  8978
103 Epoch 27/40
20s 37ms/step - loss: 0.2926 - accuracy: 0.
  9257 - val_loss: 0.3207 - val_accuracy: 0.
  9155
105 Epoch 28/40
20s 37ms/step - loss: 0.2923 - accuracy: 0.
  9242 - val_loss: 0.3384 - val_accuracy: 0.
  9046
107 Epoch 29/40
```

```
108 20s 37ms/step - loss: 0.2882 - accuracy: 0.
  9275 - val_loss: 0.3364 - val_accuracy: 0.
  9150
109 Epoch 30/40
21s 39ms/step - loss: 0.2776 - accuracy: 0.
  9296 - val_loss: 0.3802 - val_accuracy: 0.
  9009
111 Epoch 31/40
20s 37ms/step - loss: 0.2727 - accuracy: 0.
  9296 - val_loss: 0.3455 - val_accuracy: 0.
  9077
113 Epoch 32/40
20s 37ms/step - loss: 0.2610 - accuracy: 0.
  9366 - val_loss: 0.3618 - val_accuracy: 0.
  9051
115 Epoch 33/40
23s 43ms/step - loss: 0.2605 - accuracy: 0.
  9348 - val_loss: 0.3122 - val_accuracy: 0.
  9166
117 Epoch 34/40
23s 43ms/step - loss: 0.2601 - accuracy: 0.
  9368 - val_loss: 0.3207 - val_accuracy: 0.
  9145
119 Epoch 35/40
23s 43ms/step - loss: 0.2512 - accuracy: 0.
  9393 - val_loss: 0.3174 - val_accuracy: 0.
  9155
121 Epoch 36/40
```

```
122 23s 43ms/step - loss: 0.2482 - accuracy: 0.
   9408 - val_loss: 0.3096 - val_accuracy: 0.
   9244
123 Epoch 37/40
22s 41ms/step - loss: 0.2427 - accuracy: 0.
   9420 - val_loss: 0.3327 - val_accuracy: 0.
   9124
125 Epoch 38/40
23s 43ms/step - loss: 0.2415 - accuracy: 0.
   9417 - val_loss: 0.3260 - val_accuracy: 0.
   9223
127 Epoch 39/40
22s 41ms/step - loss: 0.2343 - accuracy: 0.
   9439 - val_loss: 0.3451 - val_accuracy: 0.
   9072
129 Epoch 40/40
22s 42ms/step - loss: 0.2327 - accuracy: 0.
   9428 - val_loss: 0.3516 - val_accuracy: 0.
   9056
15ms/step - loss: 0.3658 - accuracy: 0.9024
132 Test error: 0.3658386170864105, test
   accuracy: 0.9024389982223511
133
134 Process finished with exit code 0
135
```