

```

1 C:\Users\mail2\AppData\Local\Programs\Python\Python38
  \python.exe "C:/Users/mail2/Documents/Nauka/PJA 2021/
  SEMESTR VII/NAI/Projekty/Neural_Network/Clothes/main.
  py"
2 Model: "sequential"
3 -----
4 -----
4 Layer (type)                      Output Shape
      Param #
5 =====
5 =====
6 flatten (Flatten)                 (None, 784
   )                                0
7
8 dense (Dense)                     (None, 128
   )                                100480
9
10 dense_1 (Dense)                  (None, 10
   )                                1290
11
12 =====
12 =====
13 Total params: 101,770
14 Trainable params: 101,770
15 Non-trainable params: 0
16 -----
17 -----
17 Epoch 1/50
18 235/235 [=====] - 1s 2ms/
   step - loss: 0.6098 - accuracy: 0.7958 - val_loss: 0.
   4928 - val_accuracy: 0.8314
19 Epoch 2/50
20 235/235 [=====] - 0s 2ms/
   step - loss: 0.4334 - accuracy: 0.8487 - val_loss: 0.
   4476 - val_accuracy: 0.8445
21 Epoch 3/50
22 235/235 [=====] - 0s 2ms/
   step - loss: 0.3863 - accuracy: 0.8662 - val_loss: 0.

```

```
22 4099 - val_accuracy: 0.8574
23 Epoch 4/50
24 235/235 [=====] - 0s 2ms/
    step - loss: 0.3626 - accuracy: 0.8722 - val_loss: 0.
    4282 - val_accuracy: 0.8495
25 Epoch 5/50
26 235/235 [=====] - 0s 2ms/
    step - loss: 0.3430 - accuracy: 0.8780 - val_loss: 0.
    3784 - val_accuracy: 0.8673
27 Epoch 6/50
28 235/235 [=====] - 0s 2ms/
    step - loss: 0.3286 - accuracy: 0.8830 - val_loss: 0.
    3881 - val_accuracy: 0.8564
29 Epoch 7/50
30 235/235 [=====] - 0s 2ms/
    step - loss: 0.3156 - accuracy: 0.8868 - val_loss: 0.
    3595 - val_accuracy: 0.8708
31 Epoch 8/50
32 235/235 [=====] - 0s 2ms/
    step - loss: 0.3050 - accuracy: 0.8896 - val_loss: 0.
    3592 - val_accuracy: 0.8695
33 Epoch 9/50
34 235/235 [=====] - 0s 2ms/
    step - loss: 0.2923 - accuracy: 0.8940 - val_loss: 0.
    3705 - val_accuracy: 0.8678
35 Epoch 10/50
36 235/235 [=====] - 0s 2ms/
    step - loss: 0.2854 - accuracy: 0.8972 - val_loss: 0.
    3634 - val_accuracy: 0.8691
37 Epoch 11/50
38 235/235 [=====] - 0s 2ms/
    step - loss: 0.2768 - accuracy: 0.9002 - val_loss: 0.
    3528 - val_accuracy: 0.8722
39 Epoch 12/50
40 235/235 [=====] - 0s 2ms/
    step - loss: 0.2688 - accuracy: 0.9020 - val_loss: 0.
    3435 - val_accuracy: 0.8746
41 Epoch 13/50
42 235/235 [=====] - 0s 2ms/
    step - loss: 0.2640 - accuracy: 0.9039 - val_loss: 0.
    3437 - val_accuracy: 0.8774
```

```
43 Epoch 14/50
44 235/235 [=====] - 0s 2ms/
    step - loss: 0.2595 - accuracy: 0.9063 - val_loss: 0.
    3392 - val_accuracy: 0.8788
45 Epoch 15/50
46 235/235 [=====] - 0s 2ms/
    step - loss: 0.2519 - accuracy: 0.9084 - val_loss: 0.
    3318 - val_accuracy: 0.8805
47 Epoch 16/50
48 235/235 [=====] - 0s 2ms/
    step - loss: 0.2430 - accuracy: 0.9117 - val_loss: 0.
    3340 - val_accuracy: 0.8814
49 Epoch 17/50
50 235/235 [=====] - 0s 2ms/
    step - loss: 0.2383 - accuracy: 0.9136 - val_loss: 0.
    3320 - val_accuracy: 0.8835
51 Epoch 18/50
52 235/235 [=====] - 0s 2ms/
    step - loss: 0.2373 - accuracy: 0.9141 - val_loss: 0.
    3502 - val_accuracy: 0.8768
53 Epoch 00018: early stopping
54
55 Process finished with exit code 0
56
```