1. **DataSet: MNIST Fashion (60k training samples, 10k test samples)**

Optimizer: ADAM

Hidden layers activation function: ReLU

Епохи: 15

Nnfs.init(): включено

NN structure: init\_layer - hidden dense layers - output layer

Output layer activation function: SoftMax

Loss function: Categorical Cross-entropy

Date started:

Date finished:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Скрити слоеве | Възли | Batch size | Accuracy | Loss | Време |
| 1 | 16 | 128 |  |  |  |
| 2 | 16 | 128 |  |  |  |
| 3 | 16 | 128 |  |  |  |
| 1 | 32 | 128 |  |  |  |
| 2 | 32 | 128 |  |  |  |
| 3 | 32 | 128 |  |  |  |
| 1 | 64 | 128 |  |  |  |
| 2 | 64 | 128 |  |  |  |
| 3 | 64 | 128 |  |  |  |
| 1 | 128 | 128 |  |  |  |
| 2 | 128 | 128 |  |  |  |
| 3 | 128 | 128 |  |  |  |
| 1 | 16 | 256 |  |  |  |
| 2 | 16 | 256 |  |  |  |
| 3 | 16 | 256 |  |  |  |
| 1 | 32 | 256 |  |  |  |
| 2 | 32 | 256 |  |  |  |
| 3 | 32 | 256 |  |  |  |
| 1 | 64 | 256 |  |  |  |
| 2 | 64 | 256 |  |  |  |
| 3 | 64 | 256 |  |  |  |
| 1 | 128 | 256 |  |  |  |
| 2 | 128 | 256 |  |  |  |
| 3 | 128 | 256 |  |  |  |

1. **Tърсене на Активационна функция и Оптимизер при най-добрите параметри, намерени при предишния етап.**

DataSet: MNIST Fashion (60k training samples, 10k test samples)

No hidden layers:

No nodes:

Batch size:

Епохи: 15

Nnfs.init(): включено

NN structure: init\_layer - hidden dense layers - output layer

Output layer activation function: SoftMax

Date started:

Date finished:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Hidden layers activation function | Optimizer | Accuracy | Loss | Време |
| ReLU | ADAM |  |  |  |
| Sigmoid | ADAM |  |  |  |
| Linear | ADAM |  |  |  |
| Leaky ReLU | ADAM |  |  |  |
| ReLU | AdaGrad |  |  |  |
| Sigmoid | AdaGrad |  |  |  |
| Linear | AdaGrad |  |  |  |
| Leaky ReLU | AdaGrad |  |  |  |
| ReLU | SGD |  |  |  |
| Sigmoid | SGD |  |  |  |
| Linear | SGD |  |  |  |
| Leaky ReLU | SGD |  |  |  |
| ReLU | RMSprop |  |  |  |
| Sigmoid | RMSprop |  |  |  |
| Linear | RMSprop |  |  |  |
| Leaky ReLU | RMSprop |  |  |  |