

Exercício 4:

mnist				
Modelos	1	2	3	4
Epochs	15	15	15	15
Batch Size	32	32	32	32
Learning Rate	0.001	0.001	0.001	0.001
Size Splits	Test: 0.14 Train: 0.86	Test: 0.14 Train: 0.86	Test: 0.14 Train: 0.86	Test: 0.14 Train: 0.86
Layers + Activations Functions	Conv2d + ReLU; Conv2d + ReLU; Linear + ReLU; Linear + Softmax;	Conv2d + ReLU; Conv2d + ReLU; Linear + ;	Conv2d + ReLU; Conv2d + ReLU; Linear + ; Linear + ; Linear + ;	Conv2d + ReLU; Linear + ; Linear + ;
Loss Function	Cross Entropy	Cross Entropy	Cross Entropy	Cross Entropy
Optimization Function	Stochastic Gradient Descent	Stochastic Gradient Descent	Stochastic Gradient Descent	Stochastic Gradient Descent
Accuracy	0.79	0.953	0.983	0.973

Exercício 5:

fmnist				
Modelos	1	2	3	4
Epochs	15	15	15	15
Batch Size	32	32	32	32
Learning Rate	0.001	0.001	0.001	0.001
Size Splits	Test: 0.14 Train: 0.86	Test: 0.14 Train: 0.86	Test: 0.14 Train: 0.86	Test: 0.14 Train: 0.86
Layers + Activations Functions	Conv2d + ReLU; Conv2d + ReLU; Linear + ReLU; Linear + Softmax;	Conv2d + ReLU; Conv2d + ReLU; Linear + ;	Conv2d + ReLU; Conv2d + ReLU; Linear + ; Linear + ; Linear + ;	Conv2d + ReLU; Linear + ; Linear + ;
Loss Function	Cross Entropy	Cross Entropy	Cross Entropy	Cross Entropy
Optimization Function	Stochastic Gradient Descent	Stochastic Gradient Descent	Stochastic Gradient Descent	Stochastic Gradient Descent
Accuracy	0.73	0.793	0.933	0.889

Exercício 6:

cifar		
Modelos	Residual	Residual
Epochs	30	30
Batch Size	32	32
Learning Rate	0.001	0.001
Size Splits	Test: 0.17 Train: 0.83	Test: 0.17 Train: 0.83
Layers + Activations Functions	Block(64) + ; Block(128) + ; Block(256) + ; Block(512) + ; Linear(10) + ;	Block(64) + ; Block(128) + ; Block(256) + ; Block(512) + ; Linear(10) + ;
Loss Function	Cross Entropy	Cross Entropy
Optimization Function	Adam	Stochastic Gradient Descent
Accuracy	0.94	0.92