RELU-RELU

Epoch 1/3	
50000/60000 [=================================	
Epoch 2/3	
50000/60000 [=================================	
Epoch 3/3	
50000/60000 [=================] - 4s 65us/sample - loss: 0.0730 - accuracy: 0.9776	
RELU-LeakyRELU	
Epoch 1/3	
50000/60000 [=================================	
Epoch 2/3	
50000/60000 [=================================	
Epoch 3/3	
50000/60000 [=================================	
RELU-SIGMOID	
Epoch 1/3	
50000/60000 [=================================	
Epoch 2/3	
50000/60000 [=================================	
Epoch 3/3	
50000/60000 [=================================	
RELU-SWISH	
Epoch 1/3	
50000/60000 [=================================	
Epoch 2/3	
50000/60000 [=================================	
Epoch 3/3	
50000/60000 [=================================	
RELU-TANH	
Epoch 1/3	
50000/60000 [=================================	
Epoch 2/3	
50000/60000 [==================] - 4s 72us/sample - loss: 0.0985 - accuracy: 0.9693	
Epoch 3/3	
50000/60000 [==================] - 4s 72us/sample - loss: 0.0669 - accuracy: 0.9785	

LeakyRELU-RELU

Epoch 1/3		
60000/60000 [=====	========] - 4s 74us/sample - loss: 0.2769 - accuracy: 0.9180	
Epoch 2/3		
60000/60000 [=====	========] - 4s 75us/sample - loss: 0.1215 - accuracy: 0.9626	
Epoch 3/3		
60000/60000 [=======	========] - 5\s 75us/sample - loss: 0.0853 - accuracy: 0.9729	
	LeakyRELU-LeakyRELU	
Epoch 1/3		
	=========] - 5s 78us/sample - loss: 0.2767 - accuracy: 0.9174	
Epoch 2/3		
60000/60000 [======	=========] - 5s 79us/sample - loss: 0.1270 - accuracy: 0.9613	
Epoch 3/3		
60000/60000 [======	========] - 5s 79us/sample - loss: 0.0898 - accuracy: 0.9726	
	LeakyRELU-SIGMOID	
Epoch 1/3		
60000/60000 [======	========] - 5s 82us/sample - loss: 0.3680 - accuracy: 0.8977	
Epoch 2/3		
60000/60000 [======	========] - 5s 82us/sample - loss: 0.1646 - accuracy: 0.9502	
Epoch 3/3		
60000/60000 [=========	========] - 5s 82us/sample - loss: 0.1144 - accuracy: 0.9654	
	Looks PELLI CM/CLI	
5h 4/2	LeakyRELU-SWISH	
Epoch 1/3	1. Fo 96 va /samala . laces 9.2052	
	========] - 5s 86us/sample - loss: 0.2853 - accuracy: 0.9146	
Epoch 2/3	1. Fo 96 va /samala, Jane 9 1399, accuracy 9 9699	
	========] - 5s 86us/sample - loss: 0.1280 - accuracy: 0.9609	
Epoch 3/3		
	LeakyRELU-TANH	
Epoch 1/3		
60000/60000 [=====	========] - 5s 88us/sample - loss: 0.2729 - accuracy: 0.9197	
Epoch 2/3		
60000/60000 [=====	========] - 5s 89us/sample - loss: 0.1219 - accuracy: 0.9631	
Epoch 3/3		
60000/60000 [=====	========] - 5s 88us/sample - loss: 0.0854 - accuracy: 0.9734	

SIGMOID-RELU

Epoch 1/3		
60000/60000 [=======	======] - 5s 90us/sample - loss: 0.4305 - accuracy: 0.8781	
Epoch 2/3		
60000/60000 [======	=======] - 5s 90us/sample - loss: 0.2140 - accuracy: 0.9358	
Epoch 3/3		
60000/60000 [=====	======] - 5s 90us/sample - loss: 0.1574 - accuracy: 0.9523	
	SIGMOID-LeakyRELU	
Epoch 1/3		
	=======] - 6s 92us/sample - loss: 0.4182 - accuracy: 0.8804	
Epoch 2/3		
60000/60000 [======	=======] - 6s 93us/sample - loss: 0.2147 - accuracy: 0.9357	
Epoch 3/3		
60000/60000 [=====	=======] - 6s 94us/sample - loss: 0.1572 - accuracy: 0.9525	
Frank 1/2	SIGMOID-SIGMOID	
Epoch 1/3	1. Co 07-m/s and 1. last 0.5374 account 0.0550	
	=======] - 6s 97us/sample - loss: 0.5274 - accuracy: 0.8560	
Epoch 2/3	1.6.07./	
	=======] - 6s 97us/sample - loss: 0.2225 - accuracy: 0.9337	
Epoch 3/3		
60000/60000 [==========	=======] - 6s 98us/sample - loss: 0.1632 - accuracy: 0.9514	
	SIGMOID-SHISH	
Epoch 1/3		
60000/60000 [===========	=======] - 6s 107us/sample - loss: 0.4226 - accuracy: 0.8772	
Epoch 2/3		
60000/60000 [=========	=======] - 6s 104us/sample - loss: 0.2297 - accuracy: 0.9314	
Epoch 3/3		
60000/60000 [======	=======] - 6s 104us/sample - loss: 0.1686 - accuracy: 0.9494	
	SIGMOID-TANH	
Epoch 1/3		
60000/60000 [======	=======] - 6s 106us/sample - loss: 0.4135 - accuracy: 0.8816	
Epoch 2/3		
60000/60000 [======	=======] - 6s 107us/sample - loss: 0.2173 - accuracy: 0.9352	
Epoch 3/3		
60000/60000 [=====	======] - 6s 106us/sample - loss: 0.1599 - accuracy: 0.9518	

SWISH-RELU

-poen 1/3	
50000/60000 [=================================	
Epoch 2/3	
50000/60000 [=================================	
Epoch 3/3	
50000/60000 [=================================	
SWISH-LeakyRELU	
Epoch 1/3	
50000/60000 [=================] - 7s 121us/sample - loss: 0.2912 - accuracy: 0.9145	
Epoch 2/3	
50000/60000 [====================] - 7s 121us/sample - loss: 0.1227 - accuracy: 0.9622	
Epoch 3/3	
50000/60000 [=================================	
SWISH-SIGMOID	
Epoch 1/3	
50000/60000 [=================================	
Epoch 2/3	
50000/60000 [=================================	
Epoch 3/3	
50000/60000 [=================================	
SWISH-SHISH	
Epoch 1/3	
50000/60000 [=================================	
Epoch 2/3	
50000/60000 [=================================	
Epoch 3/3	
50000/60000 [=======================] - 8s 141us/sample - loss: 0.0838 - accuracy: 0.9736	
SWISH-TANH	
Epoch 1/3	
50000/60000 [=================================	
Epoch 2/3	
50000/60000 [=================] - 9s 145us/sample - loss: 0.1259 - accuracy: 0.9607	
Epoch 3/3	
50000/60000 [=================================	

TANH-RELU

60000 samples	
Epoch 1/3	
60000/60000 [=========================] - 9s 146us/sample - loss: 0.2728 - accuracy: 0.9210	
Epoch 2/3	
60000/60000 [==============================] - 9s 147us/sample - loss: 0.1257 - accuracy: 0.9606	
Epoch 3/3	
60000/60000 [=================================	
TANH-LeakyRELU	
Epoch 1/3	
60000/60000 [=================================	
Epoch 2/3	
60000/60000 [=============================] - 9s 149us/sample - loss: 0.1476 - accuracy: 0.9545	
Epoch 3/3	
60000/60000 [=================================	
TANH-SIGMOID	
Epoch 1/3	
60000/60000 [=========================] - 9s 158us/sample - loss: 0.3576 - accuracy: 0.9014	
Epoch 2/3	
60000/60000 [========================] - 10s 174us/sample - loss: 0.1663 - accuracy: 0.9502	
Epoch 3/3	
60000/60000 [========================] - 10s 162us/sample - loss: 0.1128 - accuracy: 0.9655	
TANH-SWISH	
Epoch 1/3	
60000/60000 [=======================] - 12s 206us/sample - loss: 0.2850 - accuracy: 0.9156	
Epoch 2/3	
60000/60000 [=======================] - 10s 166us/sample - loss: 0.1305 - accuracy: 0.9588	
Epoch 3/3	
60000/60000 [=======================] - 10s 174us/sample - loss: 0.0914 - accuracy: 0.9711	
TANH-TANH	
Epoch 1/3	
60000/60000 [========================] - 10s 167us/sample - loss: 0.3117 - accuracy: 0.9101	
Epoch 2/3	
60000/60000 [=================================	
Epoch 3/3	
60000/60000 [=================================	

MNIST Dataset 3Katman Modelin İlk 2Katman İçin Bazı Aktivasyon Fonksiyonlarının Kombinasyonlarının Denenmesi

Ve Bu Kombinasyonların Performansı

Son katman aktivasyon fonksiyonu hepsinde: SOFTMAX.

• Optimizer: ADAM

LOSS: sparse_categorical_crossentropy

2.L A.F 1.L AF	RELU	L-RELU	SIGMOID	SWISS	TANH
RELU	0.9776	0.9768	0.9725	0.9763	0.9785
L-RELU	0.9729	0.9726	0.9654	0.9609	0.9734
SIGMOID	0.9523	0.9525	0.9514	0.9494	0.9518
SWISS	0.9746	0.9741	0.9676	0.9736	0.9733
TANH	0.9716	0.9677	0.9655	0.9711	0.9654