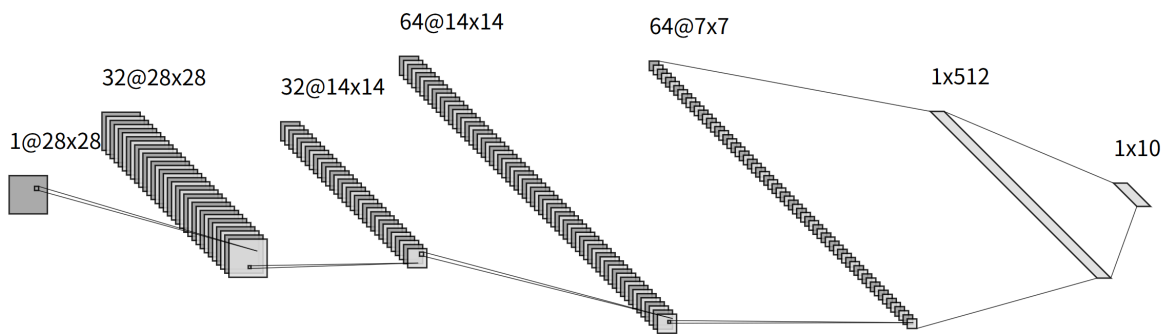


## demo 2

### *model*

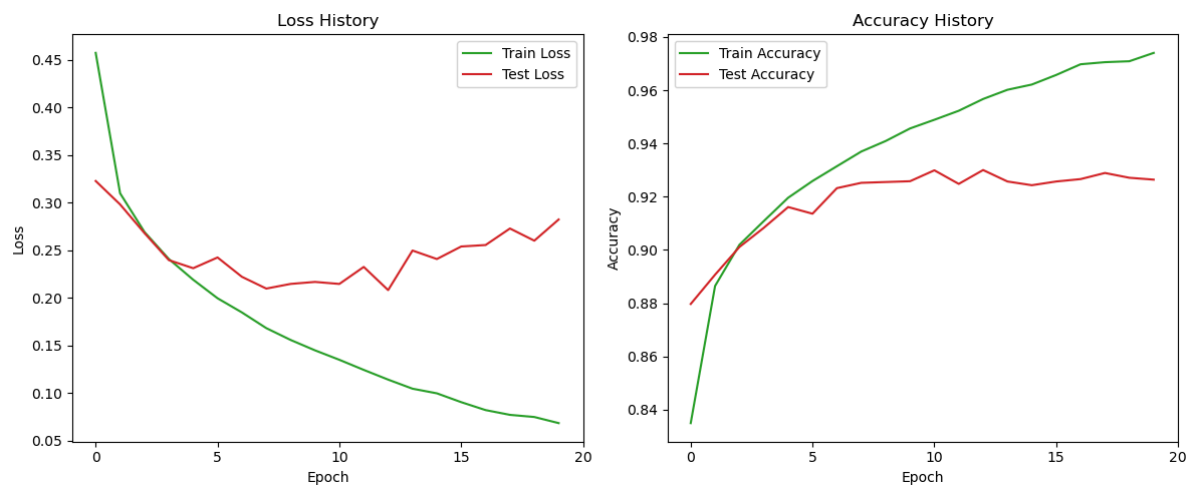
Param	Shape	Num #
=====		
conv1.weight	(32, 1, 3, 3)	288
conv1.bias	(32,)	32
bn1.weight	(32,)	32
bn1.bias	(32,)	32
conv2.weight	(64, 32, 3, 3)	18432
conv2.bias	(64,)	64
bn2.weight	(64,)	64
bn2.bias	(64,)	64
fc1.weight	(512, 3136)	1605632
fc1.bias	(512,)	512
fc2.weight	(10, 512)	5120
fc2.bias	(10,)	10
=====		
Total params: 1630282		



### *hyper params*

Parameter	Value
epochs	20
batch_size	64
learning_rate	0.001

loss&accuracy



predict

Epoch	Test Accuracy
1	0.8797
2	0.8907
3	0.9011
4	0.9083
5	0.9161
6	0.9136
7	0.9232
8	0.9252
9	0.9255
10	0.9258
11	0.9299
12	0.9248
13	0.9300
14	0.9257
15	0.9243
16	0.9257
17	0.9266
18	0.9289
19	0.9271
20	0.9264

*confusion matrices(best model)*

