

# Table IV

MNIST: VGG-D

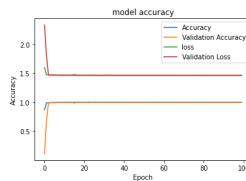
LR 0.01

Optimizer=SGD, Epochs=100, Learning\_Rate=0.01, Batch\_Size=256, Momentum=0.9  
Dropout=0.5

## Run1

Epoch 100/100

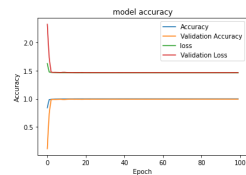
235/235 [=====] - 15s 64ms/step - loss:  
1.4615 - accuracy: 0.9997 - val\_loss: 1.4662 - val\_accuracy: 0.9949



## Run2

Epoch 100/100

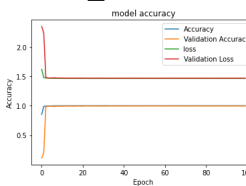
235/235 [=====] - 15s 66ms/step - loss:  
1.4616 - accuracy: 0.9996 - val\_loss: 1.4671 - val\_accuracy: 0.9940



## Run3

Epoch 100/100

235/235 [=====] - 16s 66ms/step - loss:  
1.4615 - accuracy: 0.9997 - val\_loss: 1.4665 - val\_accuracy: 0.9947



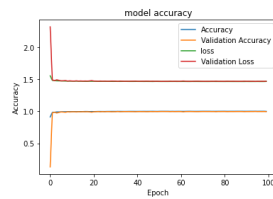
## LR 0.05

Optimizer=SGD, Epochs=100, Learning\_Rate=0.01, Batch\_Size=256, Momentum=0.9  
Dropout=0.5

### Run1

Epoch 100/100

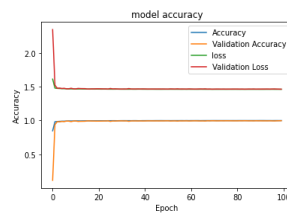
235/235 [=====] - 15s 64ms/step - loss:  
1.4632 - accuracy: 0.9980 - val\_loss: 1.4667 - val\_accuracy: 0.9943



### Run2

Epoch 100/100

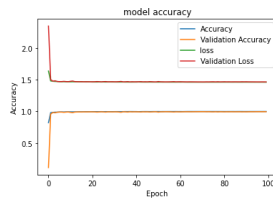
235/235 [=====] - 16s 66ms/step - loss:  
1.4619 - accuracy: 0.9992 - val\_loss: 1.4645 - val\_accuracy: 0.9965  
**And highest**



### Run3

Epoch 100/100

235/235 [=====] - 15s 64ms/step - loss:  
1.4618 - accuracy: 0.9994 - val\_loss: 1.4655 - val\_accuracy: 0.9955



# MNIST: GoogLeNet

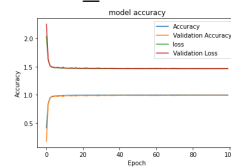
## LR 0.01

**Optimizer=SGD, Epochs=100, Learning\_Rate=0.01, Batch\_Size=256, Momentum=0.9  
Dropout=0.4**

### Run1

Epoch 100/100

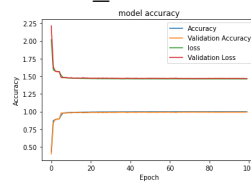
235/235 [=====] - 11s 46ms/step - loss:  
1.4625 - accuracy: 0.9987 - val\_loss: 1.4699 - val\_accuracy: 0.9908



### Run2

Epoch 100/100

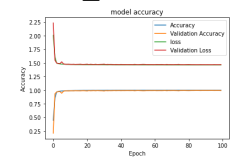
235/235 [=====] - 10s 44ms/step - loss:  
1.4623 - accuracy: 0.9989 - val\_loss: 1.4681 - val\_accuracy: 0.9927



### Run3

Epoch 100/100

235/235 [=====] - 18s 76ms/step - loss:  
1.4621 - accuracy: 0.9990 - val\_loss: 1.4689 - val\_accuracy: 0.9921



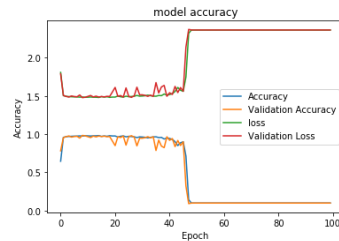
## LR 0.05

Optimizer=SGD, Epochs=100, Learning\_Rate=0.01, Batch\_Size=256, Momentum=0.9  
Dropout=0.4

### Run1

Epoch 100/100

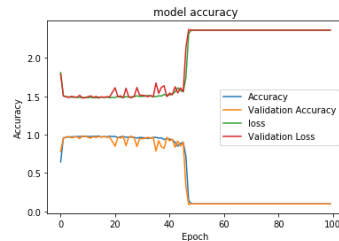
60000/60000 [=====] - 11s 180us/sample - loss:  
2.3636 - accuracy: 0.0975 - val\_loss: 2.3638 - val\_accuracy: 0.0974



### Run2

Epoch 100/100

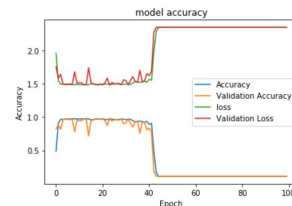
60000/60000 [=====] - 11s 180us/sample - loss:  
2.3636 - accuracy: 0.0975 - val\_loss: 2.3638 - val\_accuracy: 0.0974



### Run3

Epoch 100/100

60000/60000 [=====] - 11s 180us/sample - loss:  
2.3488 - accuracy: 0.1124 - val\_loss: 2.3477 - val\_accuracy: 0.1135



# Table V

## CIFAR-10: VGG-D

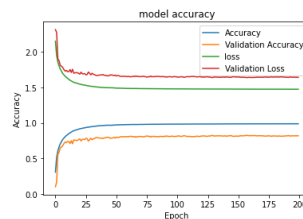
LR 0.005

Optimizer=SGD, Epochs=200, Learning\_Rate=0.005, Batch\_Size=256, Momentum=0.9  
Dropout=0.5

### Run1

Epoch 200/200

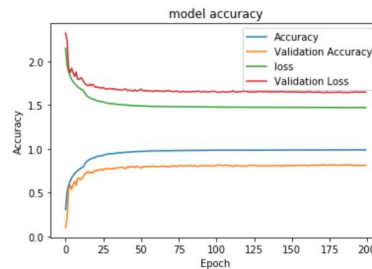
50000/50000 [=====] - 15s 295us/sample - loss:  
1.4740 - accuracy: 0.9871 - val\_loss: 1.6410 - val\_accuracy: 0.8183



### Run2

Epoch 200/200

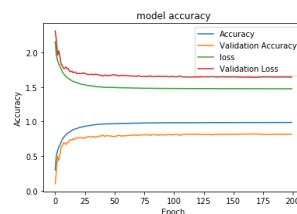
50000/50000 [=====] - 15s 294us/sample - loss:  
1.4727 - accuracy: 0.9884 - val\_loss: 1.6476 - val\_accuracy: 0.8126



### Run3

Epoch 200/200

50000/50000 [=====] - 15s 297us/sample - loss:  
1.4739 - accuracy: 0.9873 - val\_loss: 1.6439 - val\_accuracy: 0.8162



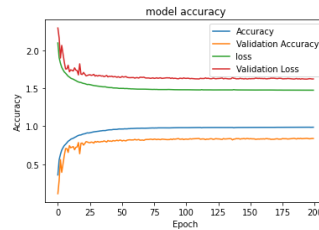
LR 0.01

Optimizer=SGD, Epochs=200, Learning\_Rate=0.01, Batch\_Size=256, Momentum=0.9  
Dropout=0.5

### Run1

Epoch 200/200

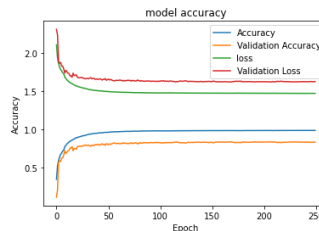
50000/50000 [=====] - 15s 291us/sample - loss:  
1.4742 - accuracy: 0.9870 - val\_loss: 1.6223 - val\_accuracy: 0.8384



### Run2 DID THIS ONE WITH 250 EPOCHS

Epoch 200/250

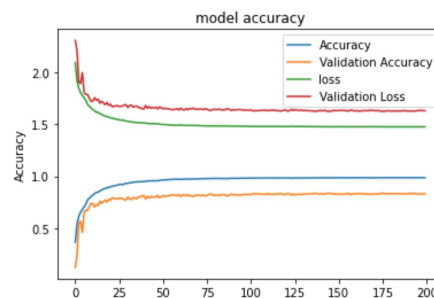
50000/50000 [=====] - 14s 284us/sample - loss:  
1.4739 - accuracy: 0.9872 - val\_loss: 1.6238 - val\_accuracy: 0.8370



### Run3

Epoch 200/200

50000/50000 [=====] - 14s 288us/sample - loss:  
1.4749 - accuracy: 0.9863 - val\_loss: 1.6292 - val\_accuracy: 0.8316



# CIFAR-10: GoogLeNet

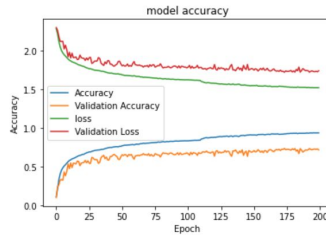
LR 0.005

Optimizer=SGD, Epochs=200, Learning\_Rate=0.005, Batch\_Size=256, Momentum=0.9  
Dropout=0.4

## Run1

Epoch 200/200

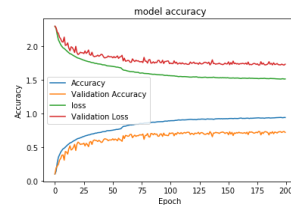
50000/50000 [=====] - 11s 217us/sample - loss:  
1.5232 - accuracy: 0.9380 - val\_loss: 1.7425 - val\_accuracy: 0.7173



## Run2

Epoch 200/200

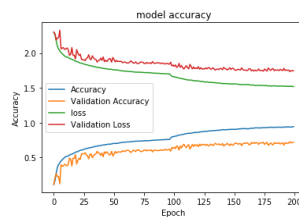
50000/50000 [=====] - 10s 193us/sample - loss:  
1.5173 - accuracy: 0.9439 - val\_loss: 1.7370 - val\_accuracy: 0.7230



## Run3

Epoch 200/200

50000/50000 [=====] - 10s 197us/sample - loss:  
1.5187 - accuracy: 0.9424 - val\_loss: 1.7461 - val\_accuracy: 0.7136



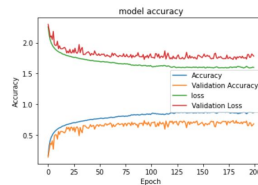
## LR 0.01

Optimizer=SGD, Epochs=200, Learning\_Rate=0.01, Batch\_Size=256, Momentum=0.9  
Dropout=0.4

### Run1

Epoch 200/200

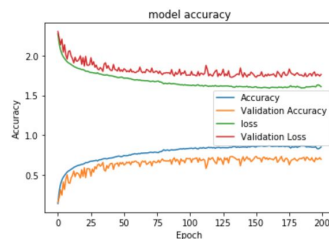
50000/50000 [=====] - 10s 197us/sample - loss:  
1.5980 - accuracy: 0.8627 - val\_loss: 1.7825 - val\_accuracy: 0.6783



### Run2

Epoch 200/200

50000/50000 [=====] - 10s 194us/sample - loss:  
1.6086 - accuracy: 0.8523 - val\_loss: 1.7625 - val\_accuracy: 0.6974



### Run3

Epoch 200/200

50000/50000 [=====] - 10s 209us/sample - loss:  
1.5898 - accuracy: 0.8709 - val\_loss: 1.7889 - val\_accuracy: 0.6717

