

Train Accuracy	Validation Accuracy	Test Accuracy
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Trial 1

Arch:

2 conv - 5 x 5 kernels, maxpool both layers
conv output - 16 (conv1), 32 (conv2)
3 FC - 512 hidden neurons for fc1, fc2

Preprocess: Mean subtraction	98.5	91.2	71.3
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Data Aug: None

Histogram Eq: None

Num epochs: 50

Regularization: None

Dropouts: None

Trial 2

Arch:

2 conv - 5 x 5 kernels, maxpool both layers
conv output - 16 (conv1), 32 (conv2)
3 FC - 512 hidden neurons for fc1, fc2

Preprocess: Mean subtraction	99.2	90.1	73.9
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Data Aug: None

Histogram Eq: None

Num epochs: 50

Regularization: Yes

Dropouts: None

Trial 3

Arch:

2 conv - 5 x 5 kernels, maxpool both layers
conv output - 16 (conv1), 32 (conv2)
3 FC - 512 hidden neurons for fc1, fc2

Preprocess: Mean subtraction	99	98.2	91
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Data Aug: Yes

Histogram Eq: None

Num epochs: 50

Regularization: None

Dropouts: None

Trial 4

Arch:

2 conv - 5 x 5 kernels, maxpool both layers

conv output - 16 (conv1), 32 (conv2)
 3 FC - 512 hidden neurons for fc1, fc2
Preprocess: Mean subtract, Min-max scale 96.6 94.4 92.2
Data Aug: Yes
Histogram Eq: None
Num epochs: 10
Regularization: None
Dropouts: 0.5

Trial 5

Arch:
 2 conv - 5 x 5 kernels, maxpool both layers
 conv output - 16 (conv1), 32 (conv2)
 3 FC - 512 hidden neurons for fc1, fc2
Preprocess: Mean subtract, Min-max scale 99 97.1 93
Data Aug: Yes
Histogram Eq: None
Num epochs: 25
Regularization: None
Dropouts: 0.5
Batch Norm: Yes

Trial 6

Arch:
 3 conv - 5 x 5 kernels, maxpool all layers
 conv output - 16 , 32, 64
 3 FC - 512 hidden neurons for fc1, fc2
Preprocess: Mean subtract, Min-max scale 98.7 97.7 89
Data Aug: Yes
Histogram Eq: None
Num epochs: 25
Regularization: None
Dropouts: 0.5
Batch Norm: Yes

Trial 7

Arch:
 3 conv - 5 x 5 kernels, maxpool all layers
 conv output - 32 , 64, 128
 3 FC - 512 hidden neurons for fc1, fc2
Preprocess: Mean subtract, Min-max scale 99 98.2 91.2
Data Aug: Yes
Histogram Eq: None
Num epochs: 25

Regularization: None

Dropouts: 0.5

Batch Norm: Yes

Trial 8

Arch:

3 conv - 5 x 5 kernels, maxpool only layer1

conv output - 32 , 64, 128

3 FC - 1024 hidden neurons for fc1, fc2

Preprocess: Mean subtract, Min-max scale 99.2 97.2 91.2

Data Aug: Yes

Histogram Eq: None

Num epochs: 10

Regularization: None

Dropouts: 0.5

Batch Norm: Yes

Trial 9

Arch:

3 conv - 5 x 5 kernels, maxpool only layer1

conv output - 32 , 64, 128

3 FC - 1024 hidden neurons for fc1, fc2

Preprocess: Mean subtract, Min-max scale 99.3 93.7

Data Aug: Yes

Histogram Eq: None

Num epochs: 20

Regularization: None

Dropouts: 0.35

Batch Norm: Yes

Trial 10

Arch:

3 conv - 5 x 5 kernels, maxpool only layer1

conv output - 32 , 64, 128

3 FC - 1024 hidden neurons for fc1, fc2

Preprocess: Mean subtract, Min-max scale 99.5 98.9 95

Data Aug: Yes

Histogram Eq: Yes

Num epochs: 30

Regularization: None

Dropouts: 0.35

Batch Norm: Yes