

Digit Recog. CNN Report

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MY CNN architecture:-

```
42] model.summary().
```



Layer (type)	Output Shape	Param #
conv2d_43 (Conv2D)	(None, 28, 28, 32)	832
conv2d_44 (Conv2D)	(None, 26, 26, 64)	18496
max_pooling2d_22 (MaxPooling)	(None, 13, 13, 64)	0
dropout_38 (Dropout)	(None, 13, 13, 64)	0
flatten_17 (Flatten)	(None, 10816)	0
dense_33 (Dense)	(None, 512)	5538304
dropout_39 (Dropout)	(None, 512)	0
dense_34 (Dense)	(None, 46)	23598
Total params: 5,581,230		
Trainable params: 5,581,230		
Non-trainable params: 0		

BATCH SIZE -> 86

EPOCHS -> 15

WITHOUT DATA AUGMENTATION:-

Tanh -> 97.188%

Relu -> 98.565%

WITH DATA AUGMENTATION :-

Relu -> 99.232%