

Clothing Classification on mnist dataset

Introduction

This is a self project which predicts the class of the clothes. It is a computer vision project, which uses deep learning models to classify. The models are implemented using tensorflow library.

Model Architecture

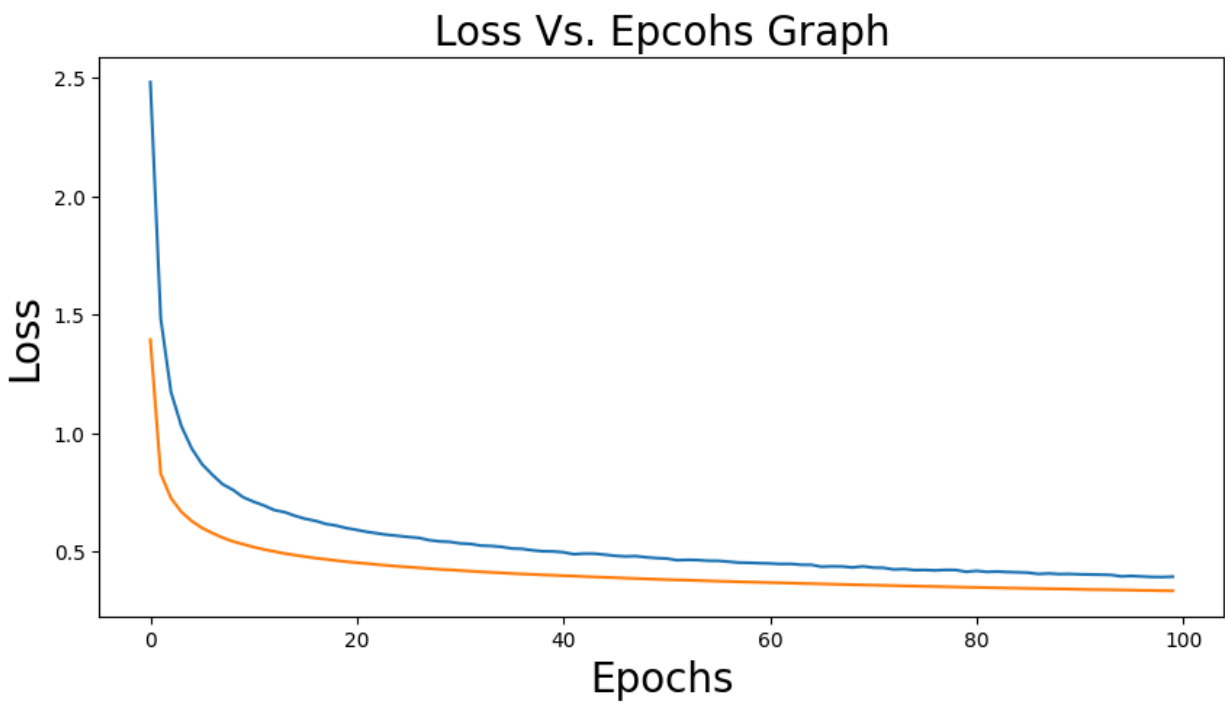
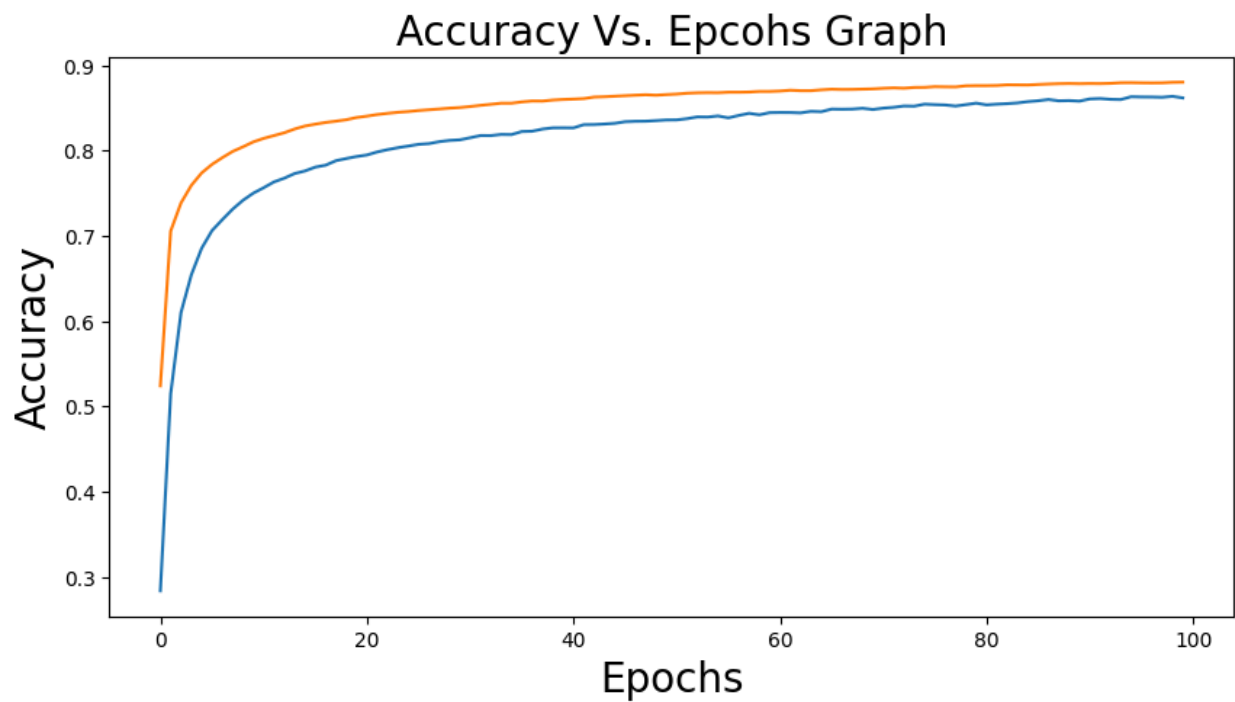
I have used a sequential model, which have 2 convolution layers, 3 batch normalization, 1 max pooling, 1 dropout, and 1 dense layer

The model summary looks like:-

```
Model: "sequential"
```

Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 26, 26, 32)	320
batch_normalization (Batch Normalization)	(None, 26, 26, 32)	128
conv2d_1 (Conv2D)	(None, 24, 24, 64)	18496
batch_normalization_1 (Batch Normalization)	(None, 24, 24, 64)	256
max_pooling2d (MaxPooling2D)	(None, 12, 12, 64)	0
dropout (Dropout)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 128)	1179776
batch_normalization_2 (Batch Normalization)	(None, 128)	512
...		
Total params: 1200778 (4.58 MB)		
Trainable params: 1200330 (4.58 MB)		
Non-trainable params: 448 (1.75 KB)		

Plots



Accuracy of the model is 0.8804