

Assignment 3

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The overall model details are summarised below. The block diagram for the same can be seen below.

Model Architecture :

Conv2D layers : 6 (activation used : ReLu)

Max Pooling layers : 3

Batch Normalisation : 4

Fully Connected layers : 3

Dropout layers : 3

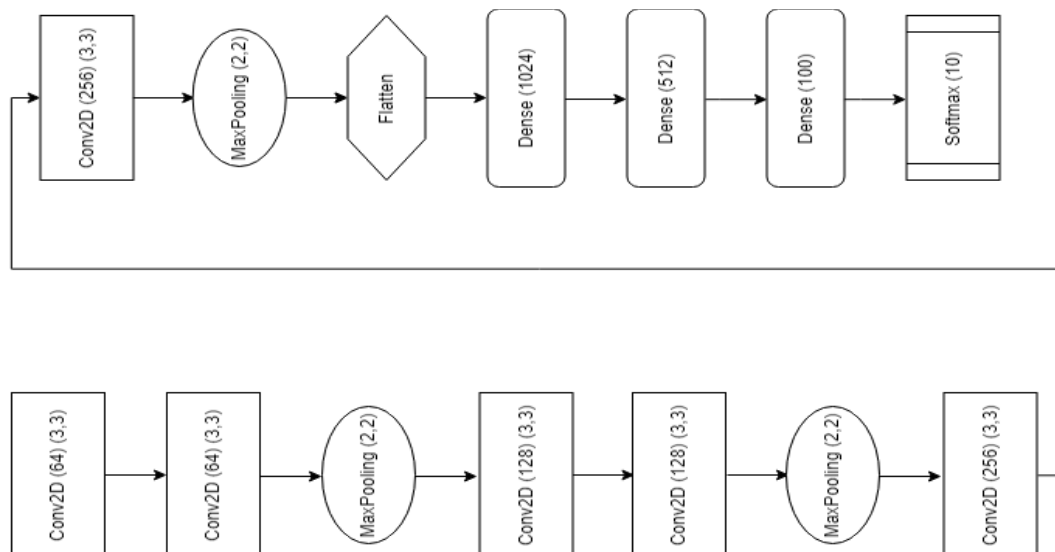
Epochs : 150

Data Augmentation : width_shift_range=0.1, height_shift_range=0.1, horizontal_flip=True

Optimiser : Adam(lr=0.005, beta_1=0.9, beta_2=0.999, epsilon=None, decay=0.0, amsgrad=False)

Accuracy achieved :

1. After 150 epochs : 65.80%



17th October

Both of us had quizzes and assignments of different courses, so we could not change the architecture of the code. The only thing we did was that we increased the number of filters in each convolutional layer. Using this we achieved an accuracy of 66.88% which was a bit higher than what we earlier achieved i.e. 65.8%.

24th October

31st October

We used the code written by the authors of DenseNet, hoping we would be able to get similar results. On the contrary, the model performed worse than our previous architecture. So, we'll be sticking with our previous architecture, with an accuracy of 66.88%.

We will now try some new models and definitely cross the ~70% barrier.