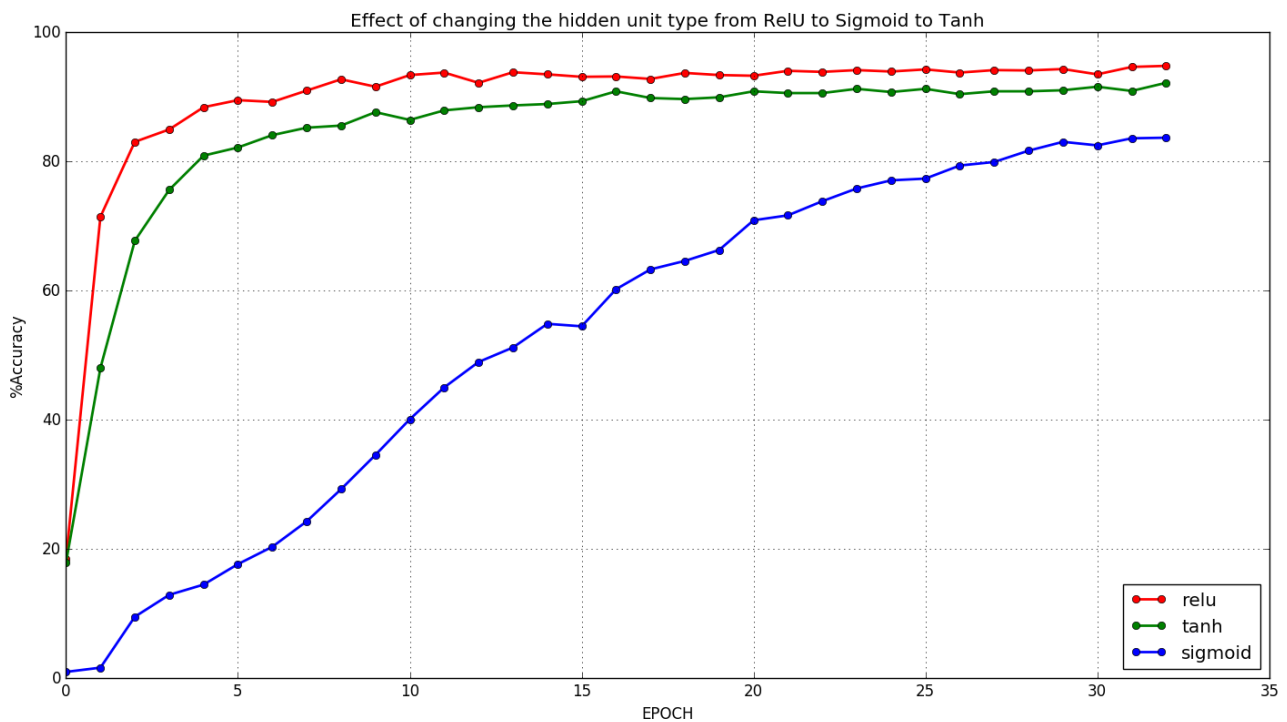
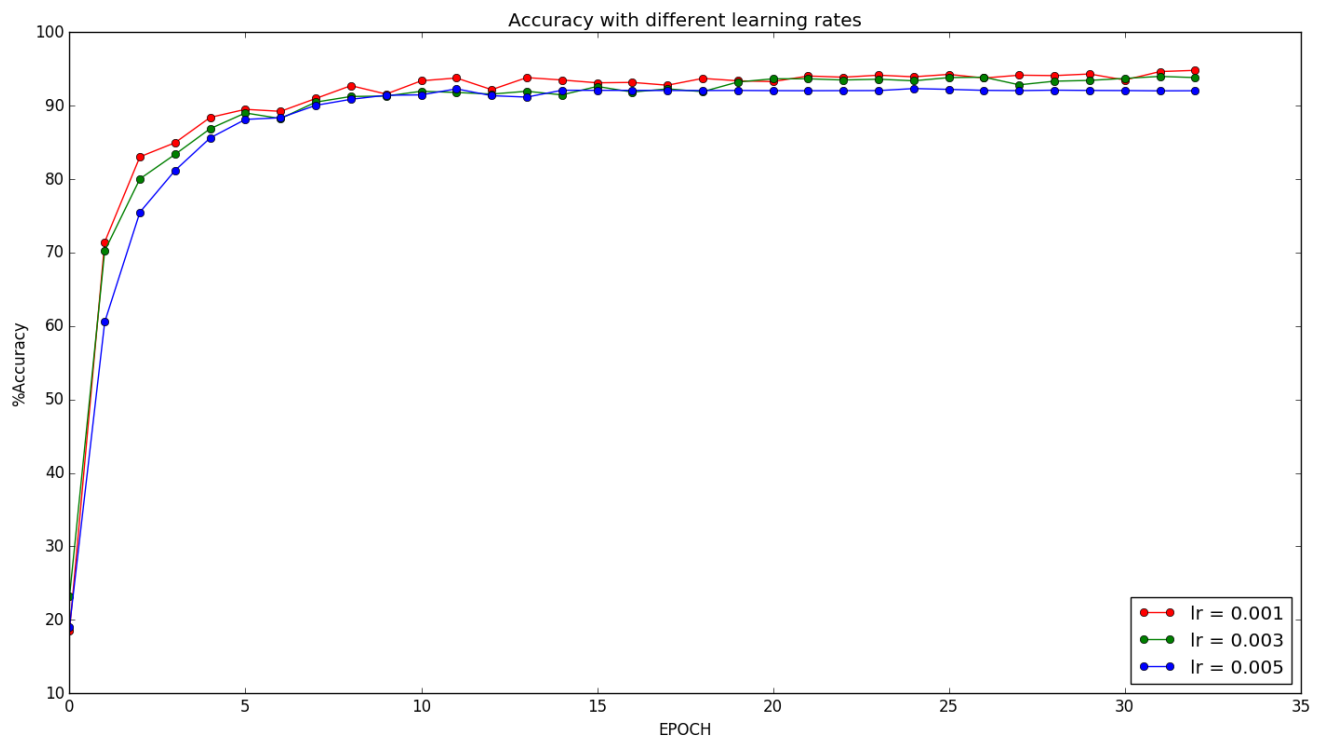


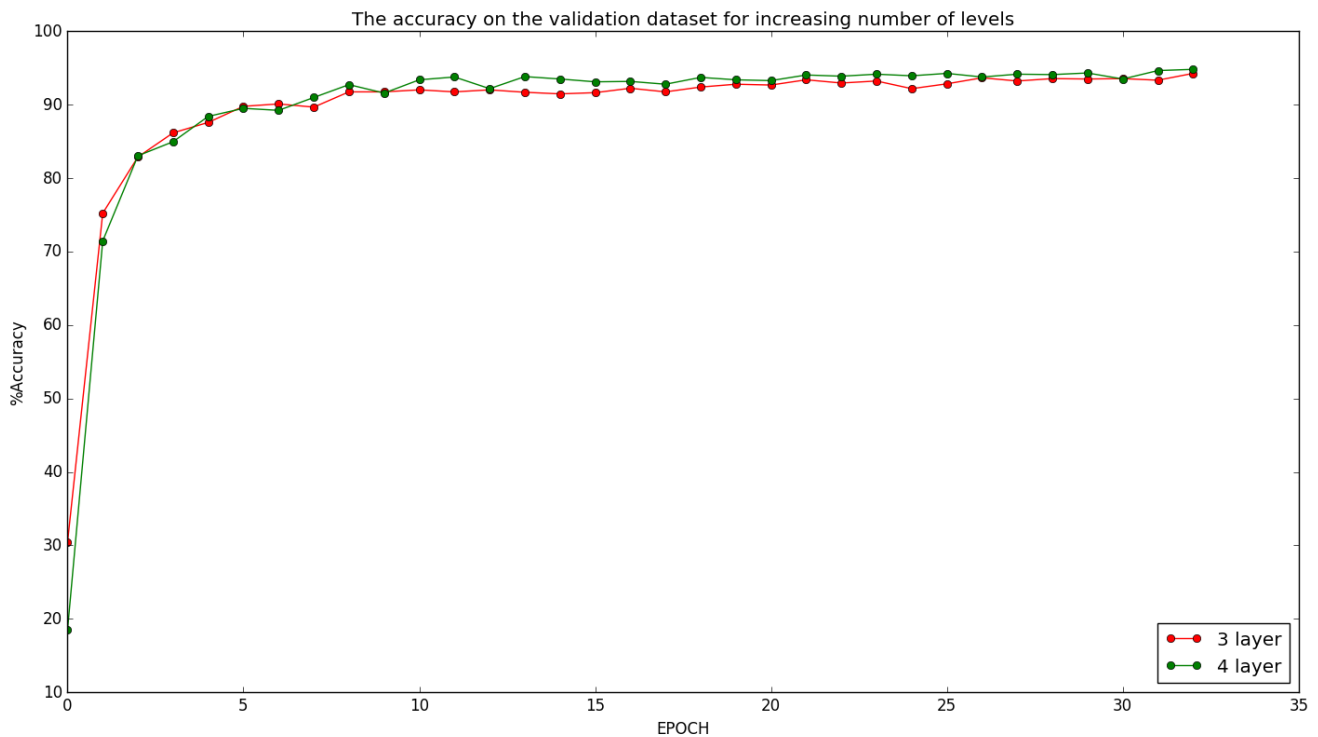
Report



The sigmoid layer is performing badly. The performance of relu activation is good. I am getting an accuracay of 94.88% on validation set.



With increasing the learning rate, performance on validation data set decreases.



With increase in the number of layer, the results get saturated.

The L2 regularizer was performing relatively badly than compared to dropout. The percentage accuracy on validation set was around 92.34% using relu activation function and learning rate of 0.001.

Effect of increasing width:

With increasing the width while keeping the number of levels fixed, the network was taking much longer number of epochs, to train the network.