

Selected Topics in CS

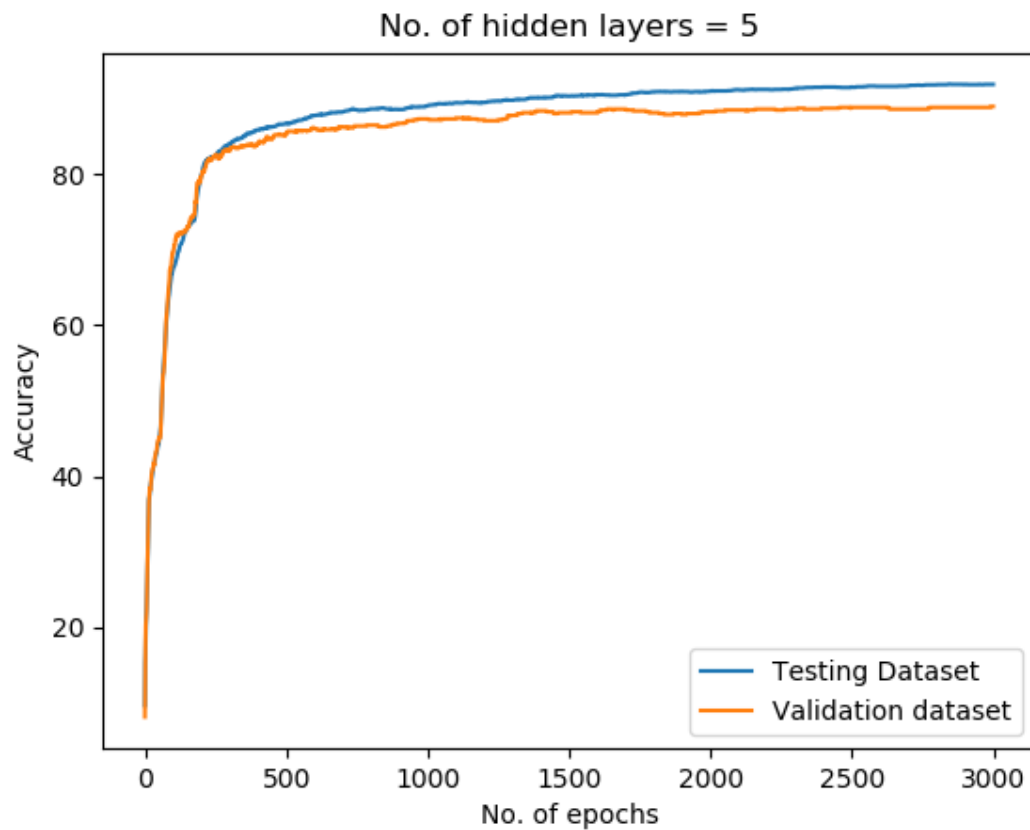
Assignment 2

By Arvind A S: 2014B3A70381H

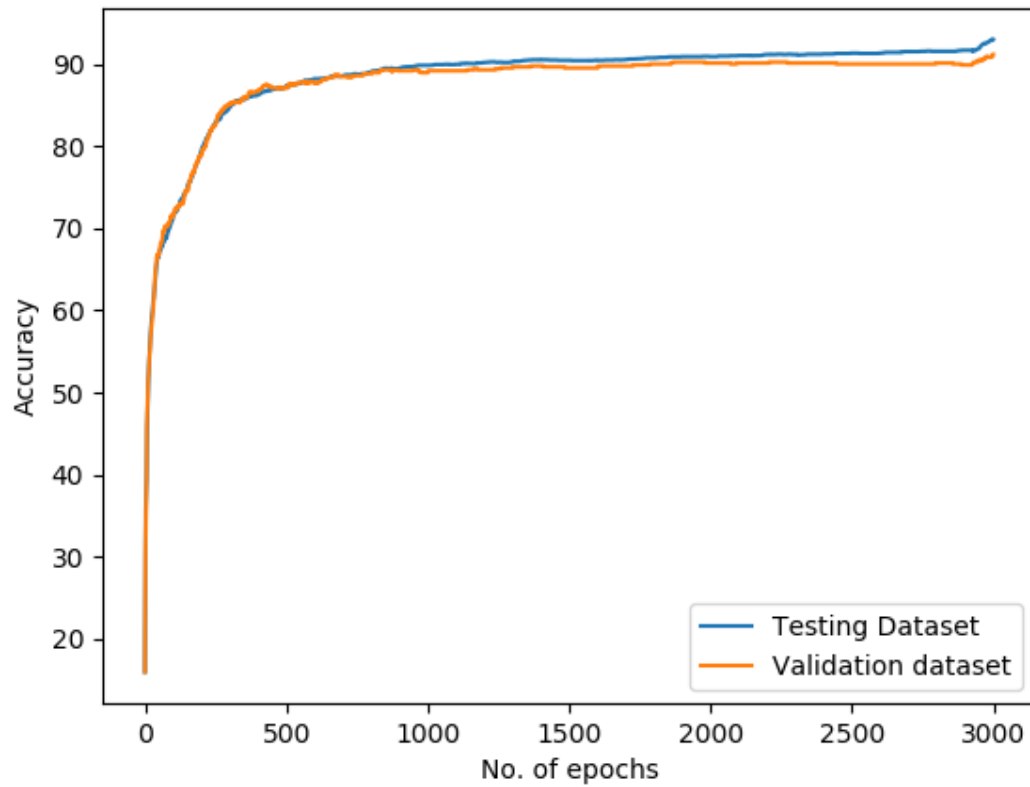
Ajaykrishna K: 2015A7PS0044H

Shishir Agrawal: 2016B2A70674H

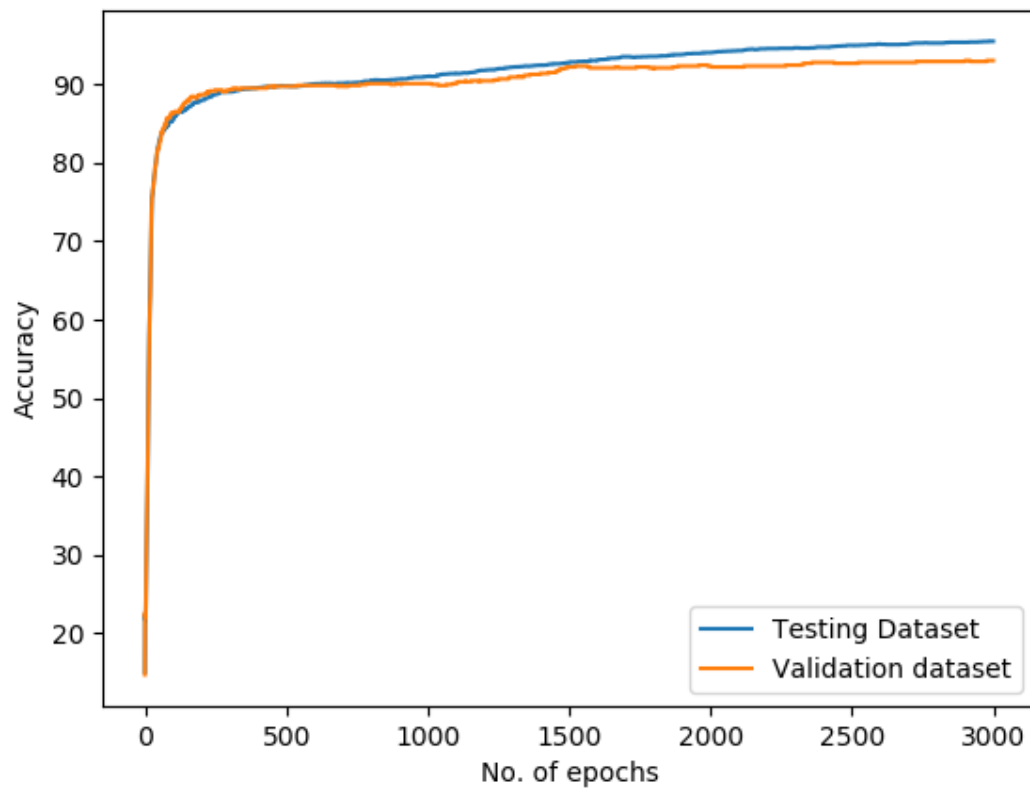
Sl.no	Number of hidden layer nodes	No. of Epochs	Accuracy
1	5	233	81.8824
2	6	165	76.4706
3	7	143	87.7647
4	8	96	81.7647
5	9	100	92.7059
6	10	82	91.5294



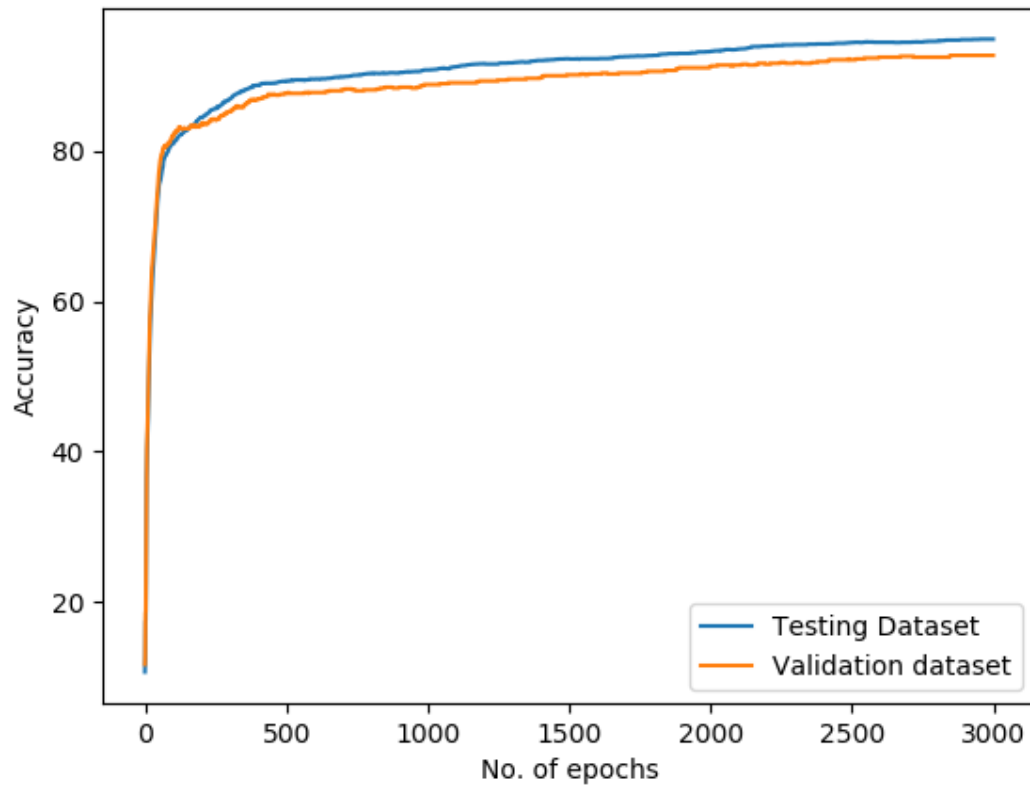
No. of hidden layers = 6



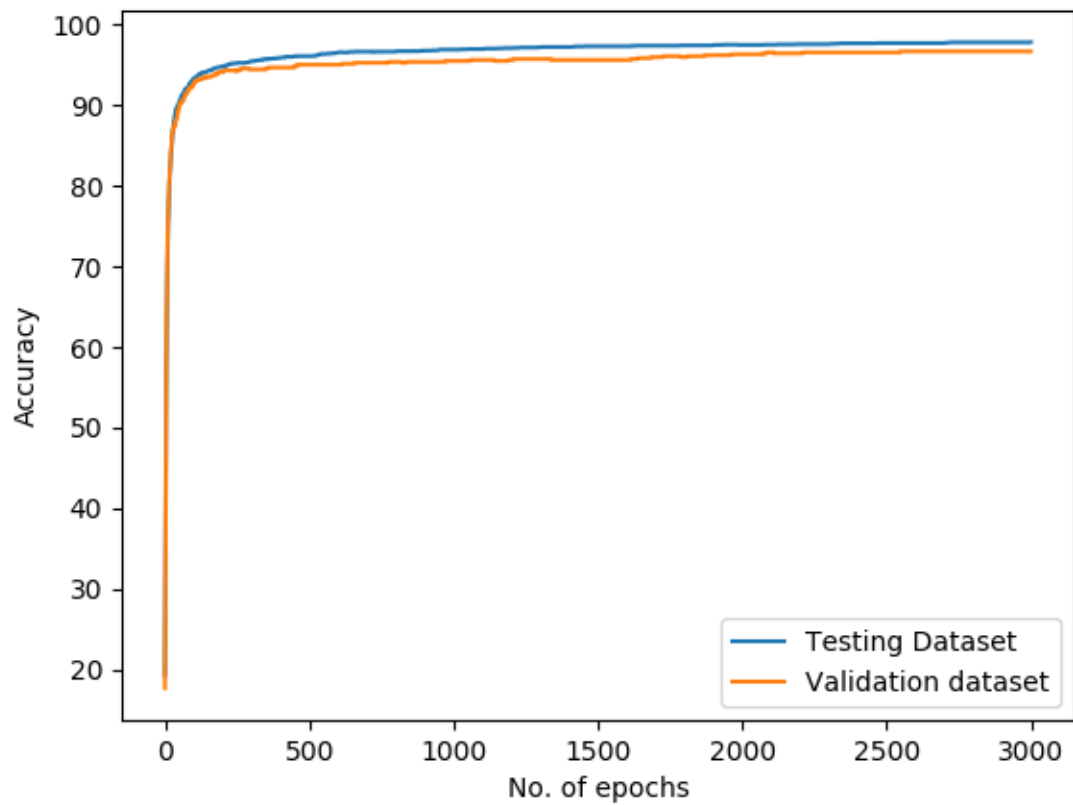
No. of hidden layers = 7

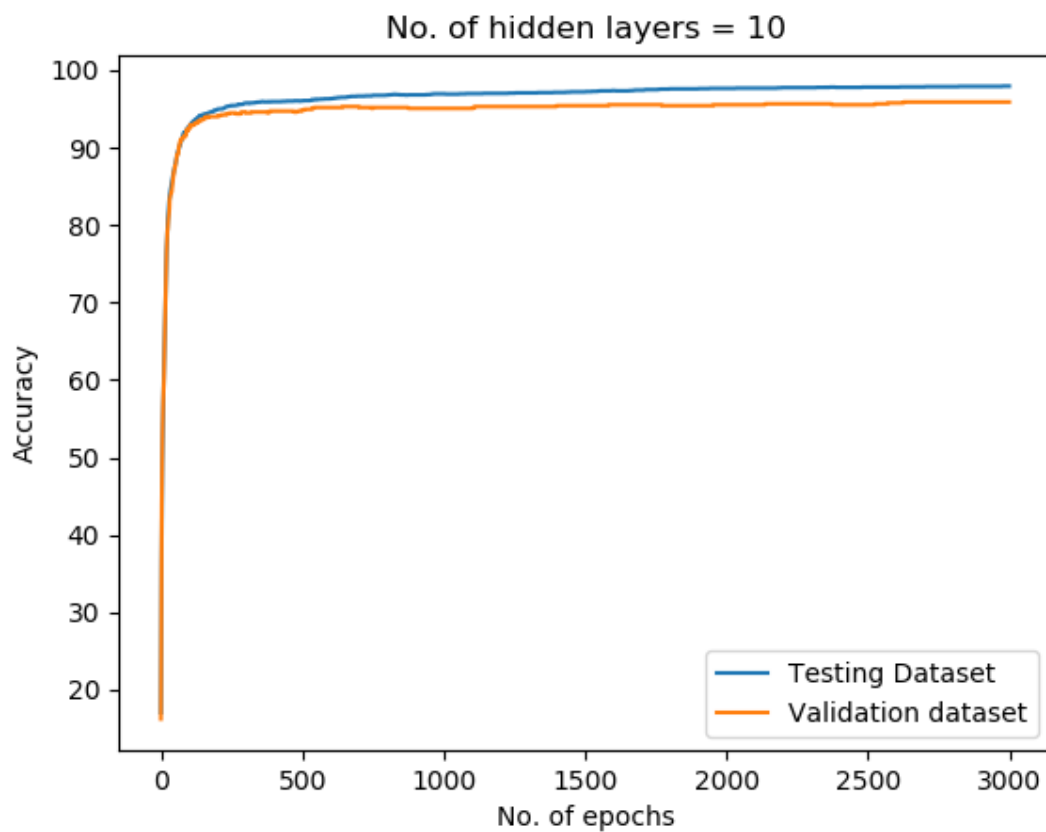


No. of hidden layers = 8



No. of hidden layers = 9





Conclusion:

Overall, the accuracy of the testing data increases as the number of nodes in the hidden layer increases. The accuracy increases but not in a linear fashion if the validation data is also considered.