

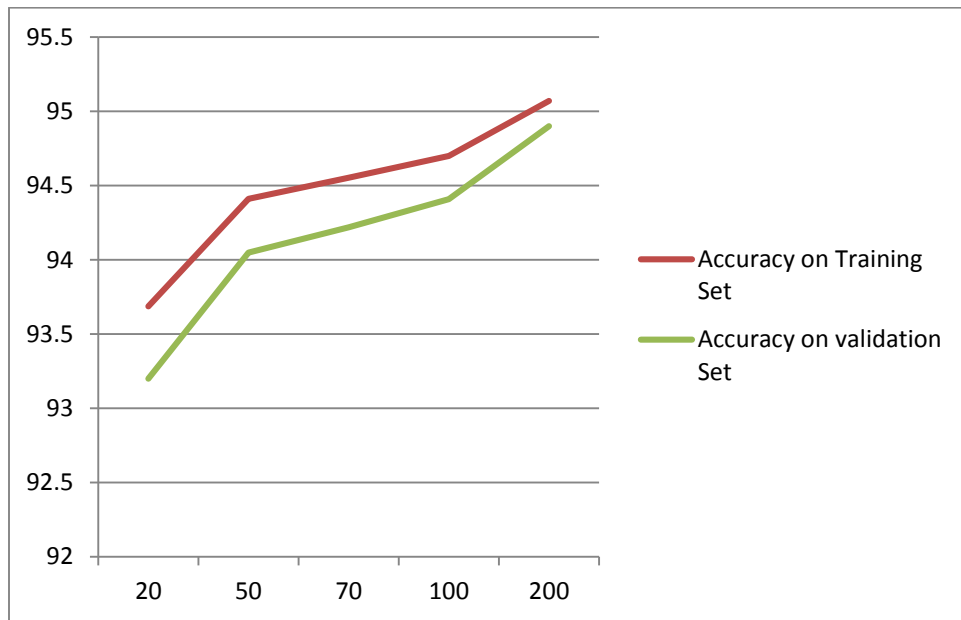
**CSE 574 INTRODUCTION TO MACHINE LEARNING
PROGRAMMING ASSIGNMENT 1**

AVANI ATRE

PRAGNA BASU

MELVIN GEORGE

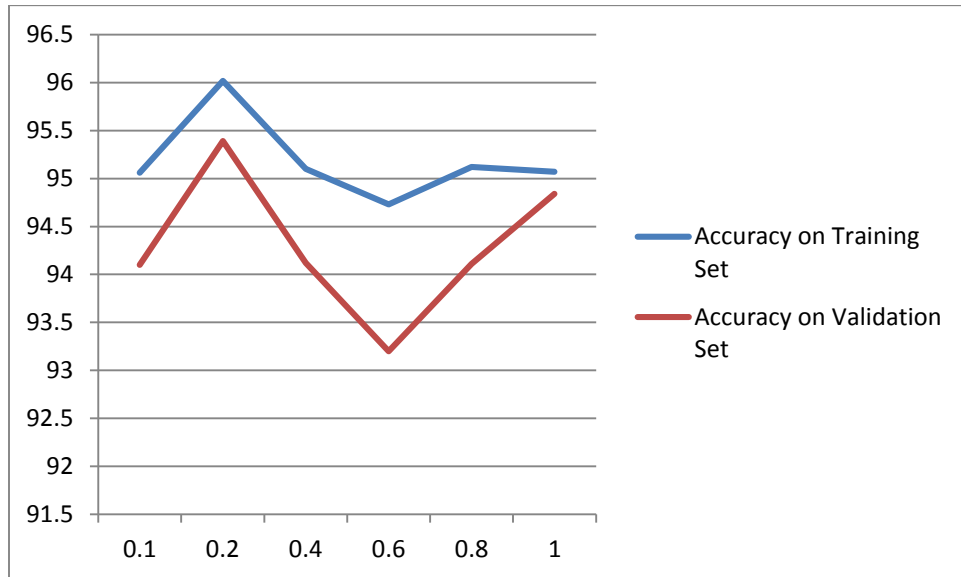
ANALYSIS OF HIDDEN NODES VERSUS ACCURACY



LAMBDA VALUE = 0.001, MAX ITERATIONS = 50

No. of Hidden Nodes	Accuracy on Training set	Accuracy on Validation Set
20	93.686	93.2
50	94.412	94.05
70	94.554	94.22
100	94.7	94.41
200	95.07	94.9

ANALYSIS OF LAMBDA VALUE VERSUS ACCURACY



lambdaval	Accuracy on Training set	Accuracy on Validation Set
0.1	95.06	94.1
0.2	96.02	95.39
0.4	95.1	94.12
0.6	94.73	93.2
0.8	95.12	94.11
1	95.07	94.84

Conclusion: With the increase in the number of hidden nodes, the accuracy increases. As the number of hidden nodes increases, it causes the complexity of the neural network to increase.

