CS 419: INTRODUCTION TO MACHINE LEARNINGAUTUMN SEMESTER 2018

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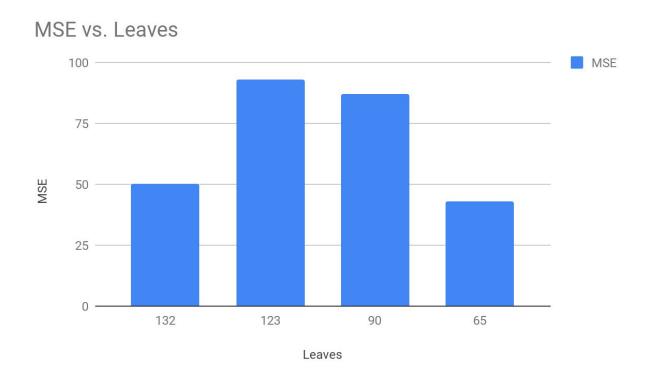
We implemented Regression Decision Tree from scratch in python using the popular matrix manipulation library numpy.

Results:

For 1st Dataset we get the following results:

Method	Min Leaf	Mean Squared Error	Training Time
Without pruning	17	20.25	1.20s
With pruning	17	45.61	1.20s

Graph:



For 2nd Dataset we get the following results :

Method	Min Leaf	Mean Squared Error	Training Time
Without Pruning	20	0.21	19s
With Pruning	20	0.53	19s

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