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**Part 2: Plotting Learning Curves**

Plot learning curves that characterize the predictive accuracy of your learned trees as a function of the training set size.

Here, I plot the figures for Heart dataset and Diabetes dataset respectively. In each plot, the data points represent training set sizes that represent 5%, 10%, 20%, 50% and 100% of the instances, and the average test-set accuracy, the minimum and maximum test-set accuracy are plotted for each training set size.

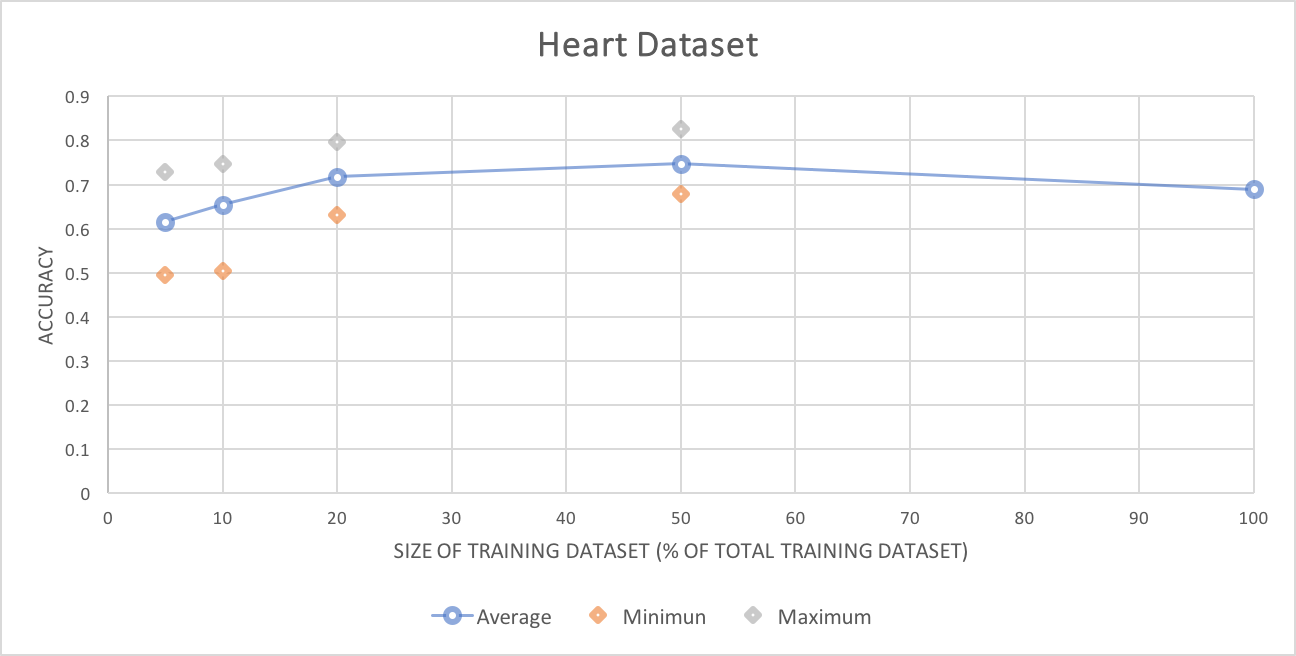


Figure 1. Heart Dataset – Part 2

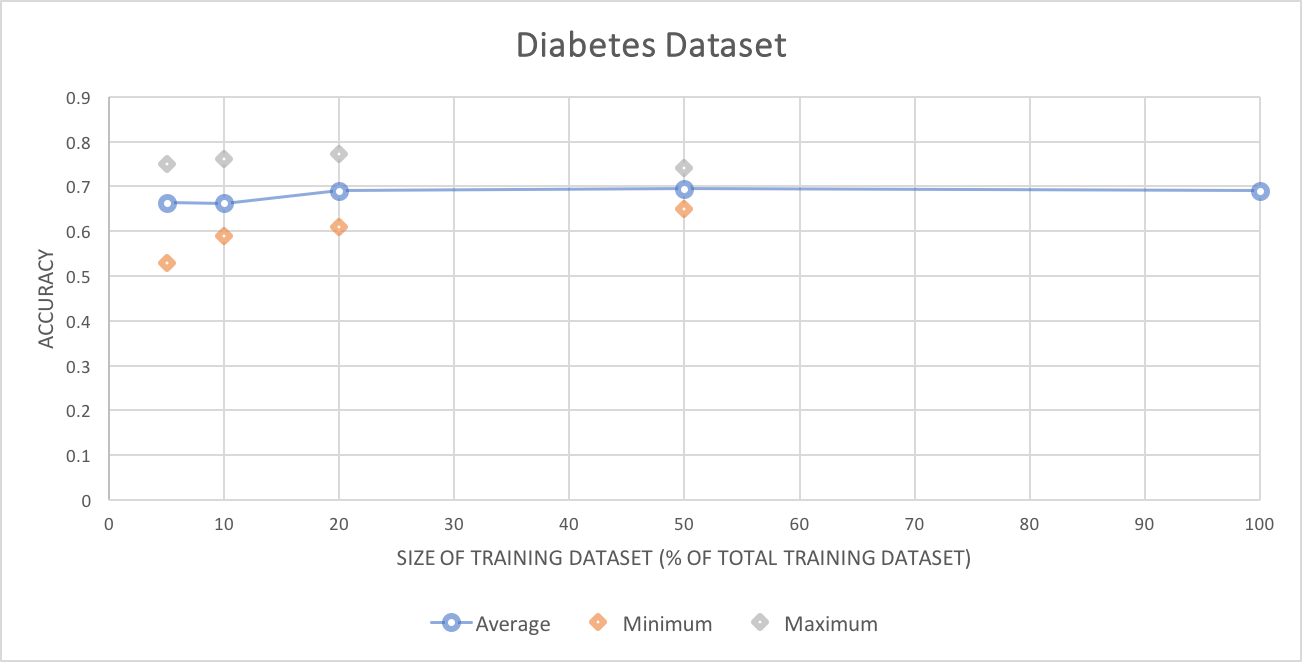


Figure 2. Diabetes Dataset – Part 2

**Part 3: Relation Between Predictive Accuracy and Tree Size**

For both the Heart dataset and the Diabetes dataset, learn trees using the entire training set. Plotting curves showing how test-set accuracy varies with the value m used in the stopping criteria. Here, we can observe a trend that accuracy is increasing with value of m, which means, decreasing with tree size.

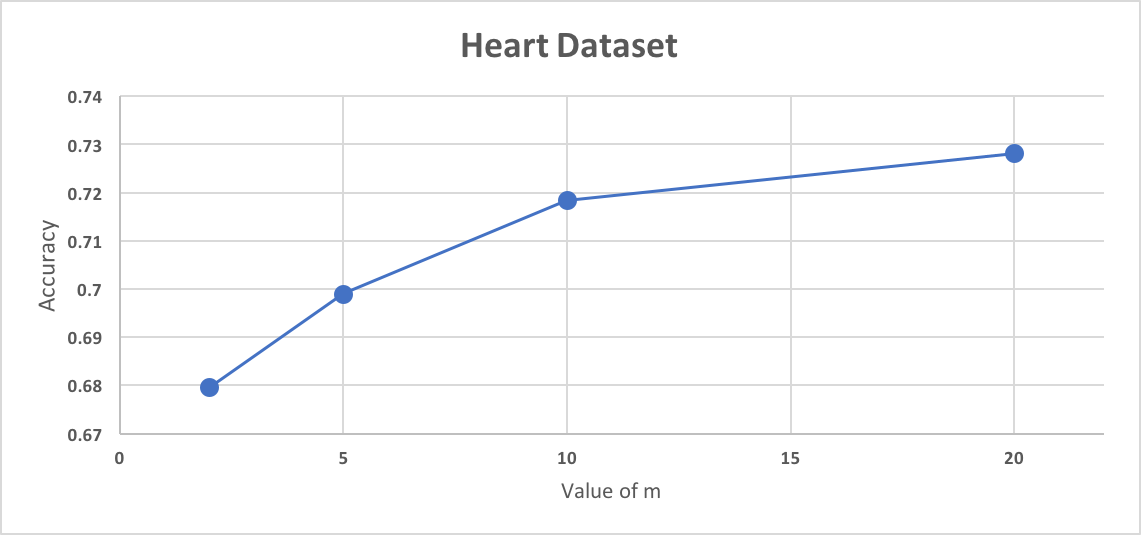


Figure 3. Heart Dataset - Part3

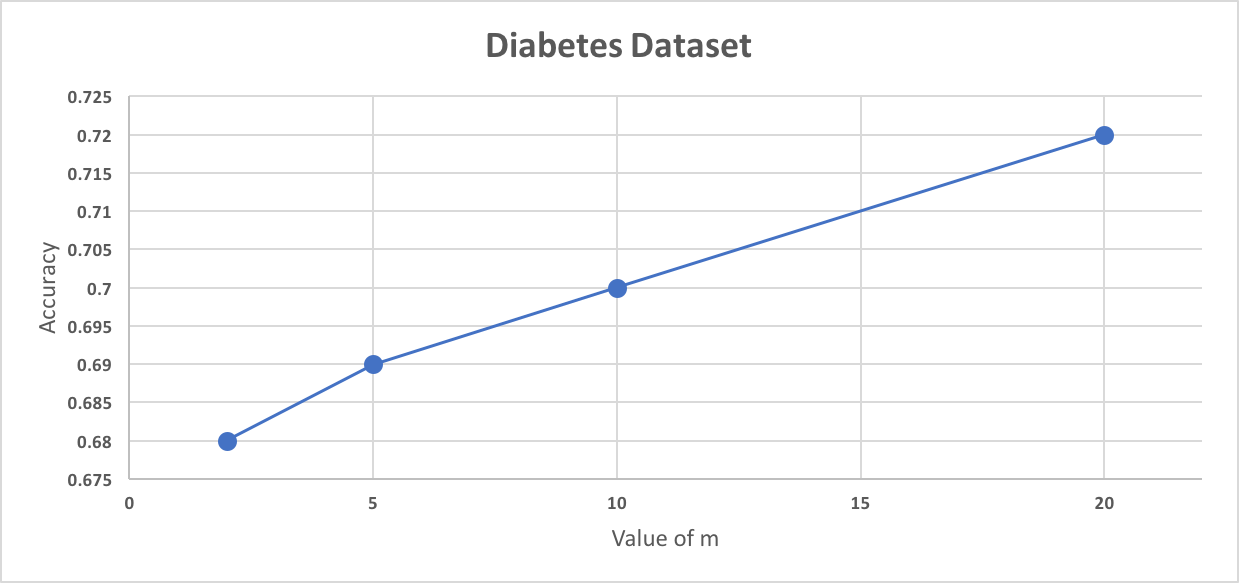


Figure 4. Diabetes Dataset – Part 3