



**NEW YORK INSTITUTE
OF TECHNOLOGY**

DTSC 710 - Machine Learning

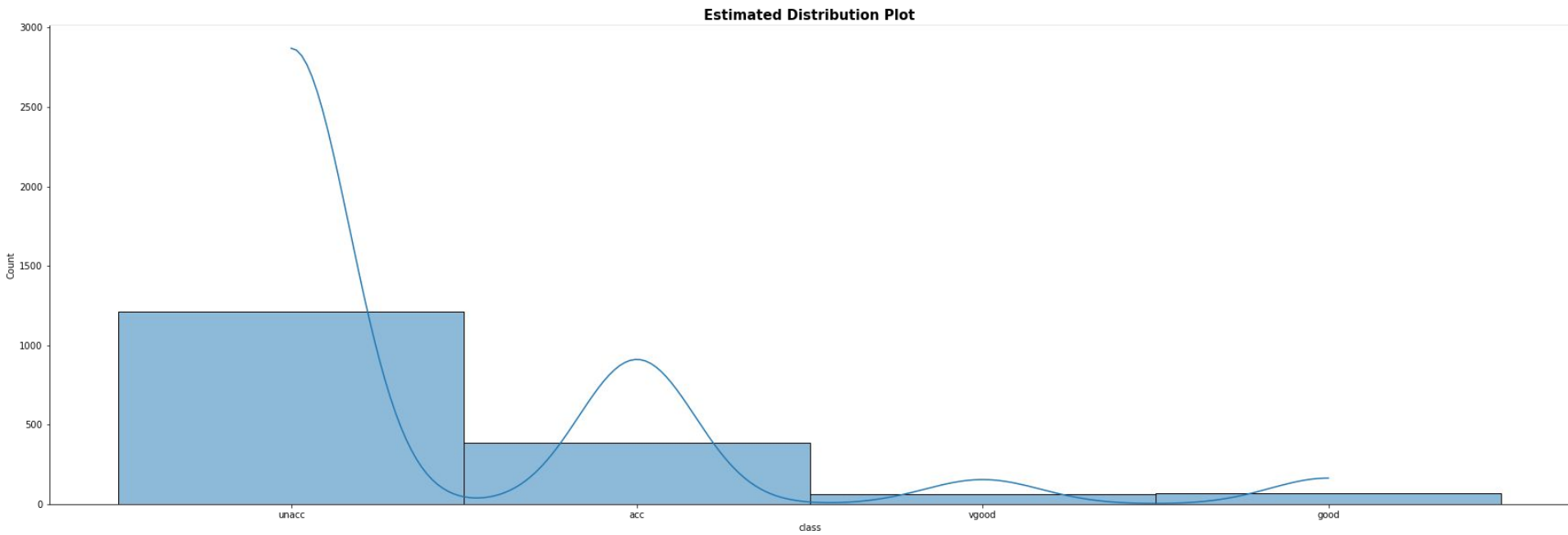
Fall 2021 - M01

Project 1 Demo

Instructor: Dr. Kiran Balagani

Hui (Henry) Chen

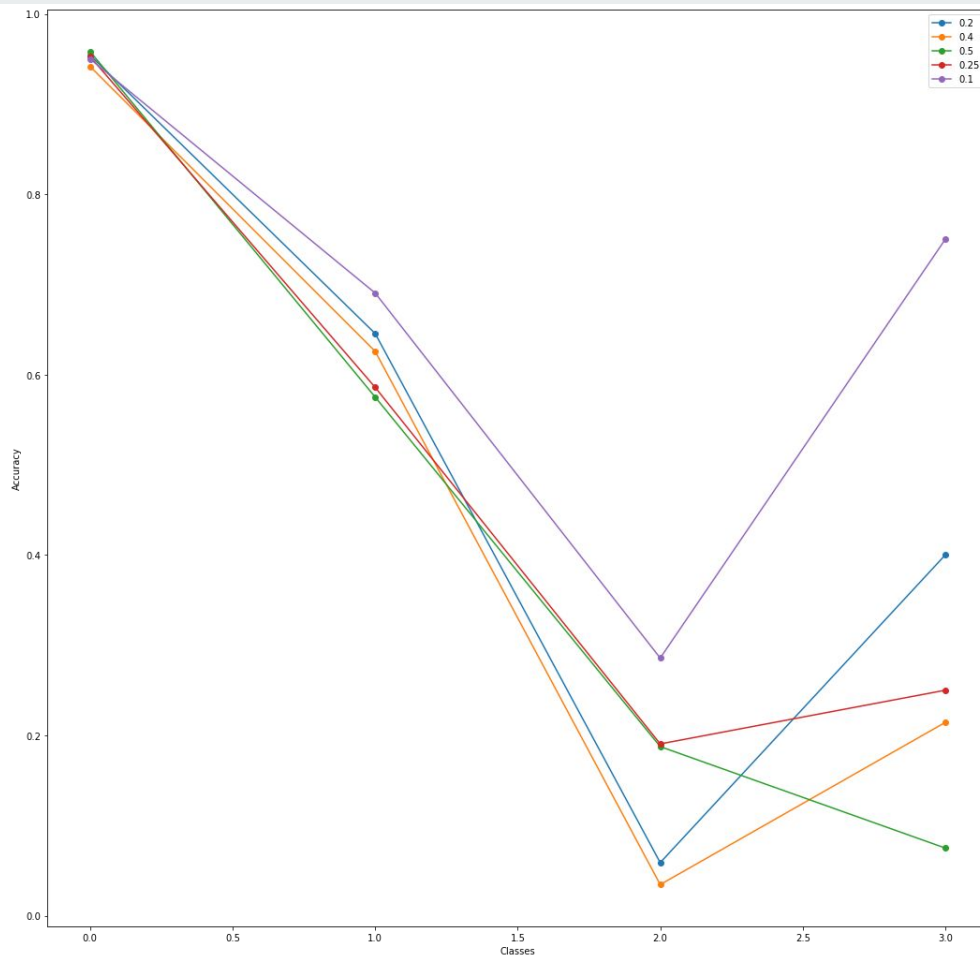
Dataset



Naïve Bayes Metrics: accuracy

Accuracy\ Test Ratio	0.2	0.4	0.5	0.25	0.1
	0.8237	0.8035	0.8032	0.8056	0.8555

Naïve Bayes Metrics: per class classification accuracy

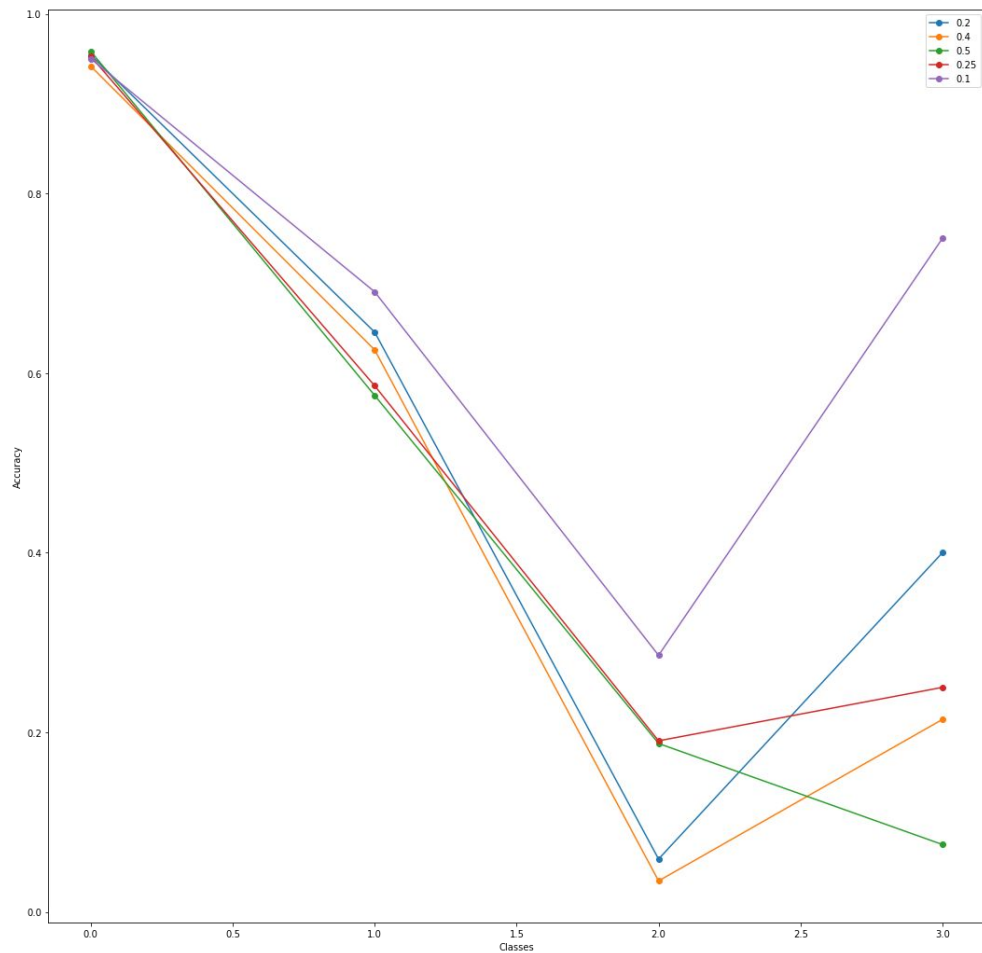


- 0: unacc
- 1: acc
- 2: good
- 3: vgood

Decision Tree Metrics: accuracy

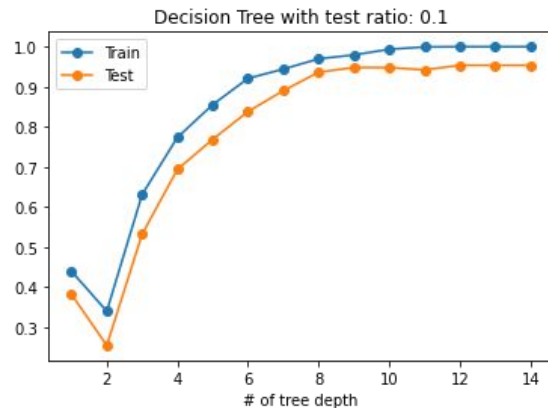
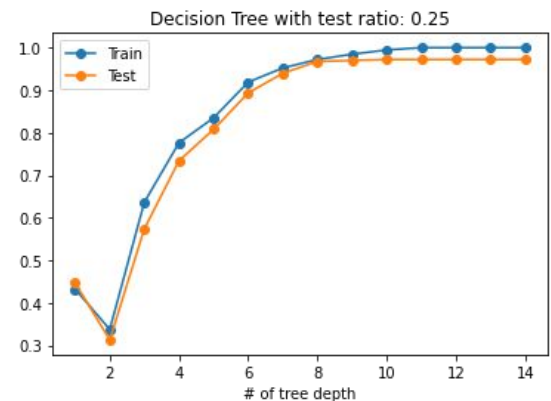
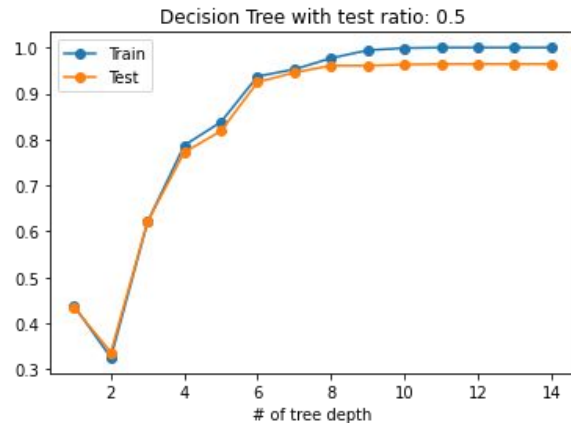
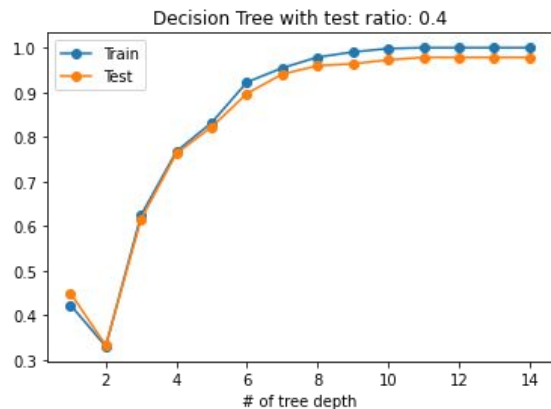
Accuracy\ Test Ratio	0.2	0.4	0.5	0.25	0.1
	0.9624	0.9783	0.9641	0.9722	0.9538

Decision Tree Metrics: per class classification accuracy



- 0: unacc
- 1: acc
- 2: good
- 3: vgood

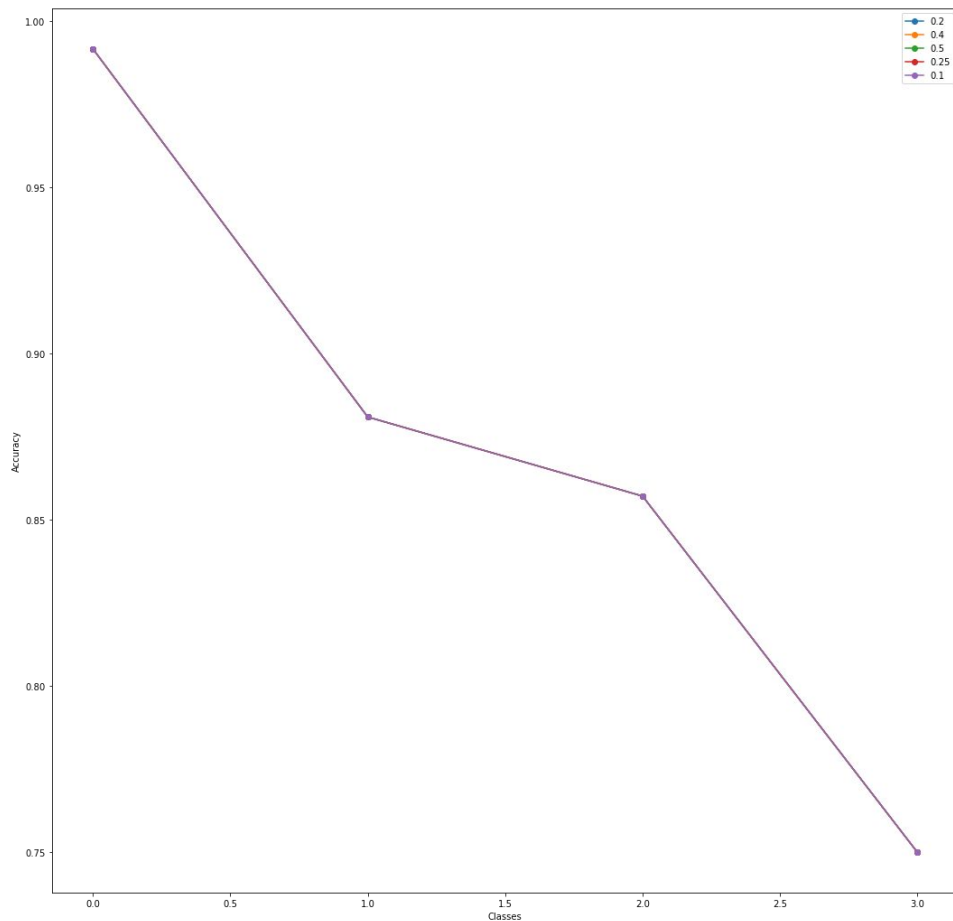
Decision Tree Metrics: overfitting



Random Forest Metrics: accuracy

Accuracy\ Test Ratio	0.2	0.4	0.5	0.25	0.1
	0.9249	0.9249	0.9249	0.9249	0.9249

Random Forest Metrics: per class classification accuracy



- 0: unacc
- 1: acc
- 2: good
- 3: vgood

Random Forest Metrics: overfitting

