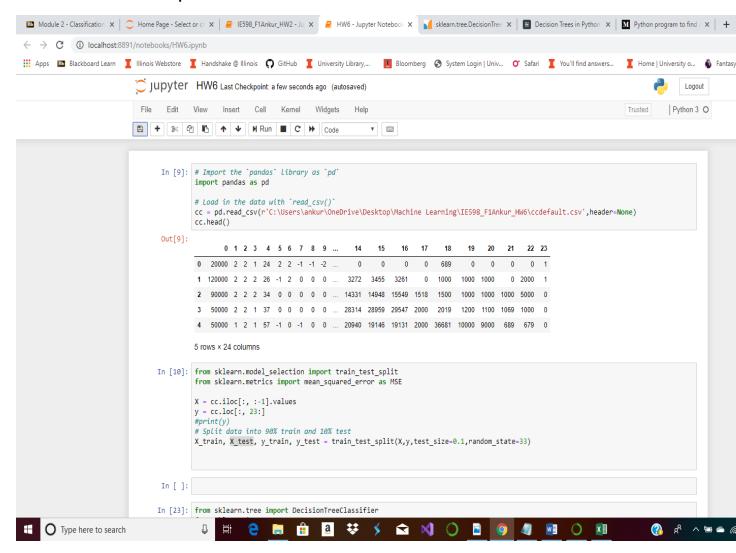
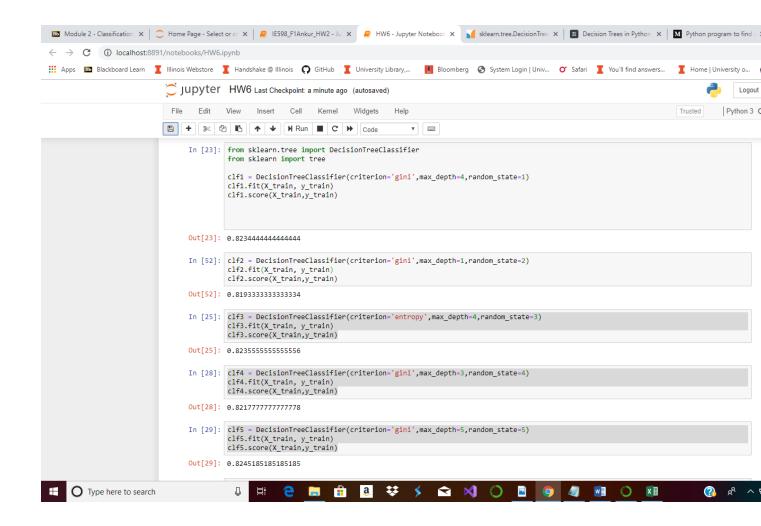
My Name (myNetID)

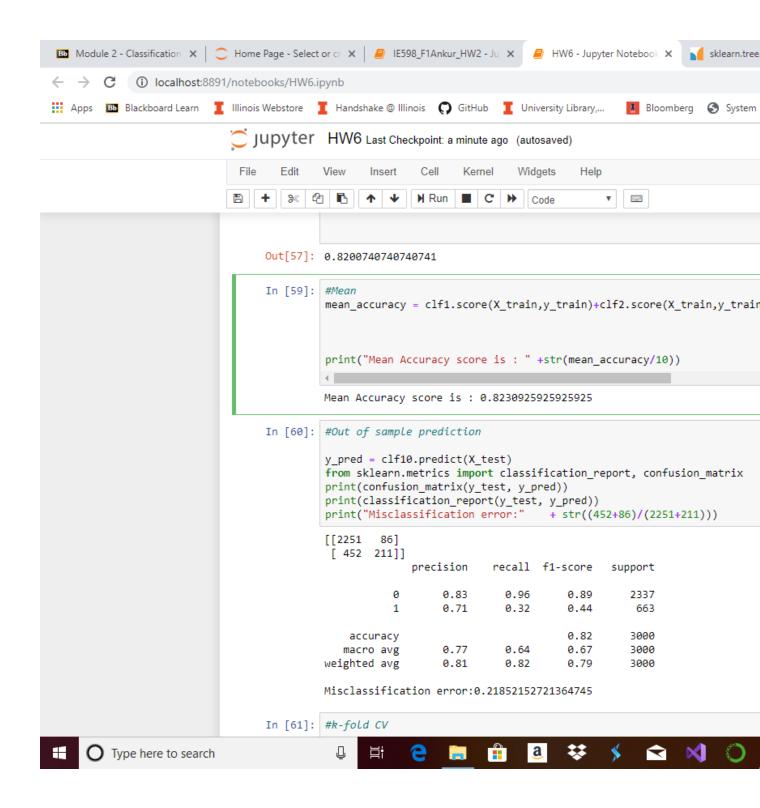
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Module 6 Homework (Cross validation)

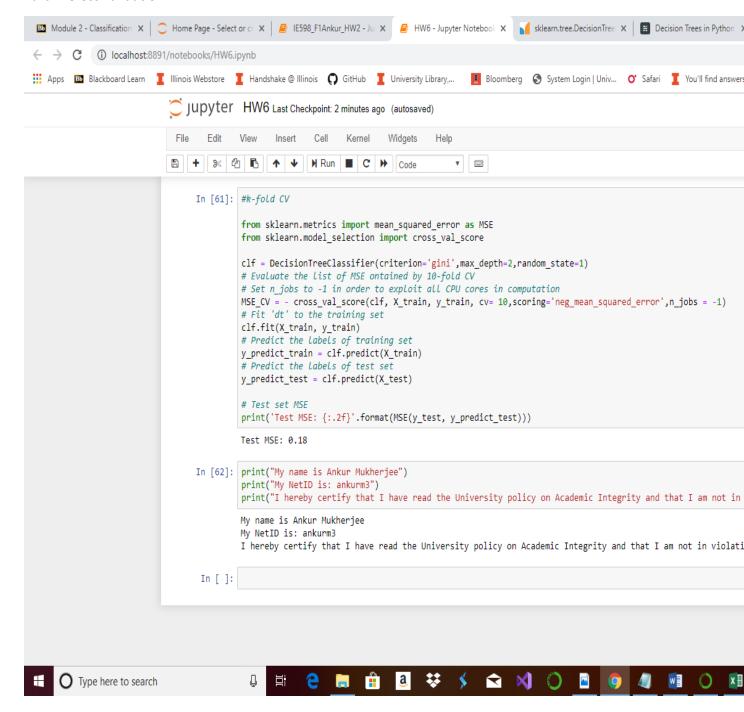
Part 1: Random test train splits







Part 2: Cross validation



Part 3: Conclusions

	Decision tree	Cross Val
Mean Squared Error	0.21	0.18

- 1) The Cross Validation method produces better estimates by reducing the error as shown above.
- 2) This is because in the k-fold CV method, 10 errors are generated- E1, E2,E3...E10 by splitting the dataset in 10 partitions and then training the model. So, in successive steps error is reduced

Part 4: Appendix

https://github.com/ankurmukherjeeuiuc/IE598 F1x HW6