

CSc 59929
Introduction to Machine Learning
Assignments for Week 7
Due October 17 by 10:59 AM

- **Compete the two programming exercise described in the following charts.**
- **Start looking for an interesting dataset as described in the following charts.**

Programming Exercise 1

- Download the Decision Tree Code that we reviewed in class. Note that I have improved the code from what we ran in class.
- Extend the Code to include the case of **learning a triangle** and upload your .ipynb file.

Programming Exercise 2

- Apply the **Scikit Learn Decision Tree Classifier** code to the **Iris dataset** using all three categories and all four feature at once and upload your .ipynb file.
- See if your choice of impurity measure makes a difference in your results.

An Interesting Dataset

- Later this semester we'll break into small groups to work on projects.
- Start looking for interesting datasets on the Internet. Look for ones that you'd be interested in applying a variety of ML techniques to in order to answer non-trivial questions.
- Note that NYC makes available a number of interesting datasets. You should check these out.
- Also note that at this point there is nothing to submit for this assignment.