

CSc 59929
Introduction to Machine Learning
Assignments for Week 9
Due October 31 by 10:59 AM

- **Compete the programming exercise described in the following charts.**
- **Continue looking for an interesting dataset for use in your project.**

Programming Exercise

- Apply the **Scikit Learn Random Forest Classifier** code to the **Iris dataset** using all three categories and all four feature at once.
 - Use decision trees of depth one, two, and three as your base classifiers.
 - Vary the number of trees in your random forests (i.e, vary the number of bootstrap samples).
 - Summarize in a table how good a job the random forests do (using the out-of-bag score) in classifying the data for each combination of base classifier tree depth and forest size.
 - Upload your code as an .ipynb file.