**2017 Fall : COMP-SCI 5590 – Special Topics**

**Python Programming**

**Lesson6: Machine learning2**

In this lesson we will review regression, clustering and introduce classification.

1. Regression and clustering
2. Classification algorithm
3. Scikit learn
4. Advanced concept related to machine learning algorithm like overfitting, underfitting, cross validation, bias vs variance, evaluation for clustering methods

**Use case Description:**

Use case is for SVM classification also we cover evaluation of clustering and classification methods

**In class exercise:**

* **Implementing Naïve Bayes method using scikit-learn library**
* **use iris dataset available in the package**
* **Use cross validation to create training and testing part**
* **evaluate the model on testing part**