2017 Fall: COMP-SCI 5590/490 - Special Topics

Python Programming

In Class Exercise 5

Course Plan

The following in class exercise focus on to make one familiar with regression and clustering techniques

Regression Techniques

Linear Regression

Logistic Regression

Clustering Technique

In-Class Exercise

1. Create linear regression model for the following table using numpy only. Plot the model using matplotlib.

X	Υ
0	1
1	3
2	2
3	5
4	7
5	8
6	8
7	9
8	10
9	12

Hints: You need to calculate the mean of X , Y using numpy and then calculate the regression coefficients.

2) Solve T Shirt size problem as illustrated in class using k means clustering method.