

## **ML Lab (CS360)**

### **Assignment 1**

**Submission deadline: 10 August 2023 (12PM)**

**Q1.** Given the following set of X and Y values, implement Linear regression to find and plot the best-fit line so that we can predict the response for any new feature value of X. Implement linear regression using the Gradient Descent Algorithm.

**6 Marks**

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

**Q2.** Implement multiple linear regression on the Boston house pricing data set using Scikit-learn.

**4 Marks**

**\*\*Hint to load the dataset:**

```
from sklearn import datasets
boston = datasets.load_boston()
```