## Machine Learning Laboratory

## (410302)

## BE Sem I Honors in AI/ML

### Academic Year: 2023-24

Lab Assignment No.4

**Problem Statement:**

Write a program to solve house price prediction problem for single variable and multivariable linear Regression using python

**Objective**

**Lab Exercise 1 (Single Variable Regression)**

Predict Canada’s per capita income in year 2020. you will find canada\_per\_capita\_income.csv file. Using this build a regression model and predict the per capita income of Canadian citizens in year 2020

**Lab Exercise 2 (multivariable Regression)**

You will find hiring.csv. This file contains hiring statics for a firm such as experience of candidate, his written test score and personal interview score. Based on these 3 factors, HR will decide the salary. Given this data, you need to build a machine learning model for HR department that can help them decide salaries for future candidates.

Using this predict salaries for following candidates,

1. 02 yrs. experience, 9 test score, 6 interview score
2. 12 yrs. experience, 10 test score, 10 interview score