

**(B.TECH) Semester-VII AY 2023-24**

**DL Lab Assignment No. 01**

|  |  |
| --- | --- |
| **Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **PRN No.: \_\_\_\_\_\_\_\_\_\_\_\_** |
| **Date: (Perform) \_\_\_\_\_ & (Submitted)\_\_\_\_\_\_** | **Faculty:** |

**Problem Statement:** Implementation of Machine learning algorithm.

**Objectives:**

1. To understand and implement the functionalities of Machine learning algorithm

**Theory:** (describe the following and enlist the different techniques associated with it)

* Explain Supervised and unsupervised learning and reinforcement learning

**Operations to be performed**

Build a model using any machine learning algorithm

Step 1: Importing the dataset

Step 2: Data clean up

Step 3: Splitting the test and train sets

Step 4: Fitting the linear regression model to the training set

Step 5: Predicting test results

Step 6: Visualizing the test results.

**Program code: (paste your program code)**

**Dataset used: (source link & description)**

**Output:** **(paste output screen & graphs plotted)**

**FAQs:**

1. What is a Supervised learning?
2. Difference between Supervised and unsupervised learning.
3. List out any two algorithm of Supervised and unsupervised learning.
4. Give one example of reinforcement learning.

**Conclusion:**

Machine learning algorithm was studied and the implementation was performed using Colab laboratory.