**SVKM’s NMIMS**

**Mukesh Patel School of Technology Management & Engineering**

**Department of Electronics and Telecommunication Engineering**

**Subject: Machine Learning Program: B.Tech/MBA.Tech**

**Sem: III/V ACAY: 2020-21**

**EXPERIMENT NO. 4**

**Aim:**

1. To load a data set using pandas in python.
2. To be able to use logistic regression using sigmoid function and view predicted output

**Software:**  PYTHON.

**Prerequisite:**

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| --- | --- |
| Sr. No | Concepts |
| 1. | Knowledge of Logistic regression and Sigmoid function |

**Outcome:**

After successful completion of this experiment students will be able to:

1. Load and visualize dataset in Pyhton using Pandas.
2. Implement linear and logistic regression by using sklearn package and hard coding
3. Determine accuracy of the model

**Theory:**

* The data which we will be using for our **linear regression** example is in a .csv file called: ‘sat\_cgpa.
* For loading the data use the command:

df=pd.read\_csv('data\_logistics\_1.csv')

**TO BE COMPLETED BY STUDENTS**

* Students must upload the soft copy of the program in the given format.

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| Name of the Experiment: Linear Regression & Logistic Regression | |
| Roll No.: B032 | Name: Naman Garg |
| Program: B Tech CS (B div) | Semester: V |
| Date of Performance: 14/8/2020 | Date of Submission: 14/8/2020 |

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