**STOCK PREDICTION**

**Sources used:**

1. CourseEra course from Youtube

2. MIT Open Course Ware

3. Quandl.com For Stock Details of Tata Steel

**Software Used:**

1. Python Interpreter

2. Libre Office

**Algorithm Used:**

* **Linear Regression:**

Method of fitting the best possible line into the existing data so that we get a linear relation between the parameters on which the quantity depends and the quantity itself. We have used the basic idea of the equation of a line to be of the form

y=m1\*x1+m2\*x2+m3\*x3+....+c

Here, x1,x2,x3… = Independent Parameters(date parameters in this case)

y= Predicting Quantity(Opening Price of Stock Here)

* **Matrix Method:**

Method used to simplify the calculation, which, otherwise would have taken a lot of commendable effort. Used Numpy library of python to perform all the operations on matrix.

* **CSV file:**

Data is read through files containing the values in the csv format. CSV library of Python used to read the data from it.

**Problems Faced:**

1. Concept of Multiple Regression causing irrelevant relationship between data and output.

2. Manipulation of date caused a huge problem.