Course Description:

Machine Learning is the science of pattern recognition by computers without explicitly programming the governing rules. With never before seen accuracies, ML has become the Rockstar of data science, gaining widespread use in various industrial and scientific endeavours.

The course covers the basics of machine learning with the goal of providing the basic tools of the trade, with focus on application rather than theory. It would cover the fundamentals of Supervised and Unsupervised Learning and cover various algorithms of both, along with a few demos on their application.  
The course comprises of 5 lectures, each of around 2 hours.

**Days**- Wed/Sun

**Time:** 5:30-7:30 pm

26 May – Intro, Types of ML, Overview of the basics of Statistics. Pre-processing, Linear regression and Gradient Descent

6 Jun – Classification, Logistic Regression, Decision Trees, Random Forest Classification

10 Jun –Neural Networks, Softmax classifier

13 Jun – Regularisation, Bias vs Variance, Principal Component Analysis

16 Jun - Support Vector Machines, Unsupervised Learning, K-means Algorithms, Conclusion