**Progress Report-01**

- Completed introductory course on Coursera

Content:

- Machine Learning is a direct consequence of AI

- Due to its subtle nature, no exact definition can truly capture the essential idea of machine learning.

- Two reasonable definitions to this include:

1) Arthur Samuel: -Field of study that gives computers the ability to learn without being explicitly programmed.

2) Tom Mitchell: - A computer program is said to learn from experience E w.r.t some task T and some performance measure P, if its performance on T, as measured by P, improves with experience E.

Supervised Learning

- Right Answers Given

- Two Types: - Regression and Classification

- Regression – Prediction of continuous valued output

- Classification- Discrete valued output

Unsupervised Learning

- Seeking structure of a given data in a chaotic environment.

- Clustering Algorithm as an example

- Cocktail Party Problem

- Completed the Joystick-Controlled 4 Wheeled Bot Code

- Susceptible to corrections.

- Swapped two octants to preserve continuity in the swiveling of the joystick when it hits the negative portion of the apparent X-Axis w.r.t to the center.

