



# Meeting - 1

3:10-4:10 PM, 31/01/2019 (Thursday)

Venue - LH-2

## Linear regression using Gradient Descent (by Abhishek Varghese)

- Abstract : Linear Regression is one of the most basic and important topics in Machine Learning. This discussion will give you a basic understanding of linear regression, using the concepts which you have learnt in your basic calculus course (MA 105).
- Prerequisites
  - Gradient - [Gradient](#) and [Gradients and Partial Derivatives](#)

## Convergence analysis of gradient descent (by Shivam Pandey)

- Prerequisites
  - Taylor polynomial and series - [Taylor series | Essence of calculus, chapter 11](#)
  - Convex function - [Convex function - Wikipedia](#)
  - Lipschitz continuity - [Lipschitz continuity - Wikipedia](#)
  - [Lagrange Remainder](#)

