NPTEL Video Course - Mathematics - NOC:Essential Mathematics for Machine Learning

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Co-ordinating Institute - IIT - Roorkee

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Lecture 30 - Minimal Polynomial and Jordan Canonical Form - II
Lecture 31 - Basic Concepts of Calculus - I
Lecture 32 - Basic Concepts of Calculus - II
Lecture 33 - Basic Concepts of Calculus - III
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Lecture 35 - Basic Concepts of Calculus - V
Lecture 36 - Calculus in Python
Lecture 37 - Convex Sets and Functions
Lecture 38 - Properties of convex functions - I
Lecture 39 - Properties of Convex functions - II
Lecture 40 - Introduction to Optimization
Lecture 41 - Unconstrained Optimization
Lecture 42 - Constrained Optimization - I
Lecture 43 - Constrained Optimization - II
Lecture 44 - Steepest Descent method
Lecture 45 - Newton's and Penalty function method
Lecture 46 - Optimization using Python
Lecture 47 - Operations on Sets
Lecture 48 - Review on Probability
Lecture 49 - Bayes' theorem and Random variables
Lecture 50 - Expectation and Variance
Lecture 51 - Discrete probability distributions
Lecture 52 - Continuous probability distributions
Lecture 53 - Joint probability distribution and covariance
Lecture 54 - Introduction to SVM
Lecture 55 - Error Minimizing LPP
Lecture 56 - Concepts of Duality
Lecture 57 - Hard Margin classifier
Lecture 58 - Soft margin classifier
Lecture 59 - SVM using Python - I
Lecture 60 - SVM using Python - II

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