

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Computer Science and Engineering - NOC:Introduction to Machine Learning

Subject Co-ordinator - Prof. S. Sarkar

Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction
Lecture 2 - Different Types of Learning
Lecture 3 - Hypothesis Space and Inductive Bias
Lecture 4 - Evaluation and Cross-Validation
Lecture 5 - Tutorial - I
Lecture 6 - Linear Regression
Lecture 7 - Introduction to Decision Trees
Lecture 8 - Learning Decision Tree
Lecture 9 - Overfitting
Lecture 10 - Python Exercise on Decision Tree and Linear Regression
Lecture 11 - Tutorial - II
Lecture 12 - k-Nearest Neighbour
Lecture 13 - Feature Selection
Lecture 14 - Feature Extraction
Lecture 15 - Collaborative Filtering
Lecture 16 - Python Exercise on kNN and PCA
Lecture 17 - Tutorial - III
Lecture 18 - Bayesian Learning
Lecture 19 - Naive Bayes
Lecture 20 - Bayesian Network
Lecture 21 - Python Exercise on Naive Bayes
Lecture 22 - Tutorial - IV
Lecture 23 - Logistic Regression
Lecture 24 - Introduction Support Vector Machine
Lecture 25 - SVM
Lecture 26 - SVM
Lecture 27 - Nonlinear SVM and Kernel Function
Lecture 28 - SVM
Lecture 29 - Python Exercise on SVM

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- Lecture 30 - Introduction
- Lecture 31 - Multilayer Neural Network
- Lecture 32 - Neural Network and Backpropagation Algorithm
- Lecture 33 - Deep Neural Network
- Lecture 34 - Python Exercise on Neural Network
- Lecture 35 - Tutorial - VI
- Lecture 36 - Introduction to Computational Learning Theory
- Lecture 37 - Sample Complexity
- Lecture 38 - VC Dimension
- Lecture 39 - Introduction to Ensembles
- Lecture 40 - Bagging and Boosting
- Lecture 41 - Introduction to Clustering
- Lecture 42 - Kmeans Clustering
- Lecture 43 - Agglomerative Hierarchical Clustering
- Lecture 44 - Python Exercise on kmeans clustering