

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

NPTEL Video Course - Electrical Engineering - NOC:Machine Learning and Deep Learning - Fundamentals and Appli

Subject Co-ordinator - Prof. M.K. Bhuyan

Co-ordinating Institute - IIT - Guwahati

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

- Lecture 1 - Introduction to Machine Learning
- Lecture 2 - Performance Measures of Classification
- Lecture 3 - Bias-Variance Tradeoff
- Lecture 4 - Regression
- Lecture 5 - Bayesian Decision Theory - 1
- Lecture 6 - Bayesian Decision Theory - 2
- Lecture 7 - Bayes Decision Theory - Binary Features
- Lecture 8 - Bayesian Decision Theory - 3
- Lecture 9 - Bayesian Decision Theory - 4
- Lecture 10 - Bayesian Belief Networks
- Lecture 11 - Parameter Estimation and Maximum Likelihood Estimation
- Lecture 12 - Parameter Estimation and Bayesian Estimation
- Lecture 13 - Concept of non-parametric techniques
- Lecture 14 - Density Estimation by Parzen Window
- Lecture 15 - Parzen Window and K nearest neighbor algorithm
- Lecture 16 - Linear Discriminant Functions and Perceptron Criteria - Part I
- Lecture 17 - Linear Discriminant Functions and Perceptron Criteria - Part II
- Lecture 18 - Linear Discriminant Functions and Perceptron Criteria - Part III
- Lecture 19 - Support Vector Machine - Part I
- Lecture 20 - Support Vector Machine - Part II
- Lecture 21 - Logistic Regression
- Lecture 22 - Decision Tree
- Lecture 23 - Hidden Markov Model (HMM)
- Lecture 24 - Ensemble Classifiers - Part I
- Lecture 25 - Ensemble Classifiers - Part II
- Lecture 26 - Dimensionality Problem and Principal Component Analysis
- Lecture 27 - Principal Component Analysis
- Lecture 28 - Linear Discriminant Analysis (LDA) - Part I
- Lecture 29 - Linear Discriminant Analysis (LDA) - Part II

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- Lecture 30 - Gaussian Mixture Model and EM Algorithm
- Lecture 31 - K-means clustering.
- Lecture 32 - Fuzzy K-means clustering
- Lecture 33 - Hierarchical Agglomerative Clustering and Mean-shift Clustering
- Lecture 34 - Artificial Neural Networks for Pattern Classification - Part 1
- Lecture 35 - Artificial Neural Networks for Pattern Classification - Part 2
- Lecture 36 - Artificial Neural Networks for Pattern Classification - Part 3
- Lecture 37 - Introduction to Deep Learning and Convolutional Neural Network (CNN)
- Lecture 38 - Vanishing and Exploding Gradients in Deep Neural Networks
- Lecture 39 - CNN Architectures - LeNet-5 and AlexNet
- Lecture 40 - CNN Architectures - VGG 16, GoogLeNet and ResNet
- Lecture 41 - Generative Adversarial Networks (GAN) - Fundamentals and Applications
- Lecture 42 - U-Net: Convolutional Networks for Image Segmentation
- Lecture 43 - Introduction to Autoencoder and Recurrent Neural Networks (RNN)
- Lecture 44 - Programming Concepts - 1
- Lecture 45 - Programming Concepts - 2
- Lecture 46 - Problem Solving Session - 1
- Lecture 47 - Problem Solving Session - 2
- Lecture 48 - Problem Solving Session - 3