

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

NPTEL Video Course - Computer Science and Engineering - NOC:An Introduction to Probability in Computing

Subject Co-ordinator - Prof. John Augustine

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Introduction to Probability - A box of chocolates
- Lecture 2 - Introduction to Probability - Axiomatic Approach to Probability Theory
- Lecture 3 - Introduction to Probability - Verifying Matrix Multiplication (Statement, Algorithm and Independence)
- Lecture 4 - Introduction to Probability - Verifying Matrix Multiplication (Correctness and Law of Total Probability)
- Lecture 5 - Introduction to Probability - How Strong is your Network?
- Lecture 6 - Introduction to Probability - How to Understand the World? Play with it!
- Lecture 7 - Tutorial 1
- Lecture 8 - Tutorial 2
- Lecture 9 - Discrete Random Variables - Basic Definitions
- Lecture 10 - Discrete Random Variables - Linearity of Expectation and Jensen's Inequality
- Lecture 11 - Discrete Random Variables - Conditional Expectation I
- Lecture 12 - Discrete Random Variables - Conditional Expectation II
- Lecture 13 - Discrete Random Variables - Geometric Random Variables and Collecting Coupons
- Lecture 14 - Discrete Random Variables - Randomized Selection
- Lecture 15 - Tail Bounds I - Markov's Inequality
- Lecture 16 - Tail Bounds I - The Second Moment, Variance and Chebyshev's Inequality
- Lecture 17 - Tail Bounds I - Median via Sampling
- Lecture 18 - Tail Bounds I - Median via Sampling - Analysis
- Lecture 19 - Tail Bounds I - Moment Generating Functions and Chernoff Bounds
- Lecture 20 - Tail Bounds I - Parameter Estimation
- Lecture 21 - Tail Bounds I - Control Group Selection
- Lecture 22 - Applications of Tail Bounds - Routing in Sparse Networks
- Lecture 23 - Applications of Tail Bounds - Analysis of Valiant's Routing
- Lecture 24 - Applications of Tail Bounds - Random Graphs
- Lecture 25 - Live Session 2
- Lecture 26 - Live Session

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