

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

NPTEL Video Course - Computer Science and Engineering - NOC:Python for Data Science

Subject Co-ordinator - Prof. Rangunathan Rengasamy

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction to Python for Data Science
Lecture 2 - Introduction to Python
Lecture 3 - Introduction to Spyder - Part 1
Lecture 4 - Introduction to Spyder - Part 2
Lecture 5 - Variables and Datatypes
Lecture 6 - Operators
Lecture 7 - Jupyter setup
Lecture 8 - Sequence data - Part 1
Lecture 9 - Sequence data - Part 2
Lecture 10 - Sequence data - Part 3
Lecture 11 - Sequence data - Part 4
Lecture 12 - Numpy
Lecture 13 - Reading data
Lecture 14 - Pandas Dataframes - I
Lecture 15 - Pandas Dataframes - II
Lecture 16 - Pandas Dataframes - III
Lecture 17 - Control structures and Functions
Lecture 18 - Exploratory data analysis
Lecture 19 - Data Visualization - Part I
Lecture 20 - Data Visualization - Part II
Lecture 21 - Dealing with missing data
Lecture 22 - Introduction to Classification Case Study
Lecture 23 - Case Study on Classification - Part I
Lecture 24 - Case Study on Classification - Part II
Lecture 25 - Introduction to Regression Case Study
Lecture 26 - Case Study on Regression - Part I
Lecture 27 - Case Study on Regression - Part II
Lecture 28 - Case Study on Regression - Part III
Lecture 29 - Module : Predictive Modelling

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- Lecture 30 - Linear Regression
- Lecture 31 - Model Assessment
- Lecture 32 - Diagnostics to Improve Linear Model Fit
- Lecture 33 - Cross Validation
- Lecture 34 - Classification
- Lecture 35 - Logistic Regression
- Lecture 36 - K-Nearest Neighbors (kNN)
- Lecture 37 - K-means Clustering
- Lecture 38 - Logistic Regression (Continued...)
- Lecture 39 - Decision Trees
- Lecture 40 - Multiple Linear Regression