

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

NPTEL Video Course - Multi Disciplinary - NOC:Learning Analytics Tools

Subject Co-ordinator - Prof. Ramkumar Rajendran

Co-ordinating Institute - IIT - Bombay

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

Lecture 1 - Intro to Data Analytics. What is Learning Analytics?
Lecture 2 - Academic Analytics, and Educational Data Mining
Lecture 3 - Four Levels of Analytics
Lecture 4 - Four Levels of Learning Analytics Overview - II
Lecture 5 - Data Collection from Different learning environment
Lecture 6 - Data collection in TELE
Lecture 7 - Data Preprocessing
Lecture 8 - Ethics in Learning Analytics, Student Privacy
Lecture 9 - Demo of Weka
Lecture 10 - Introduction to Machine Learning - Part 1
Lecture 11 - Introduction to Machine Learning - Part 2
Lecture 12 - Training and testing data
Lecture 13 - Performance Metrics - I
Lecture 14 - Performance Metrics - II
Lecture 15 - Performance Metrics - III
Lecture 16 - Demo of Orange
Lecture 17 - Descriptive Analytics - I
Lecture 18 - Descriptive Analytics - II
Lecture 19 - Charts - I
Lecture 20 - Charts - II
Lecture 21 - Charts - III
Lecture 22 - Comparing Charts
Lecture 23 - Descriptive Analytics â Example I
Lecture 24 - Descriptive Analytics â Example II
Lecture 25 - Excel tool
Lecture 26 - Diagnostics Analytics
Lecture 27 - Correlation
Lecture 28 - Correlation Matrix
Lecture 29 - Spearmanâs Rank Correlation

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- Lecture 30 - Data Mining
- Lecture 31 - iSAT
- Lecture 32 - Diagnostic Analytics - SPM
- Lecture 33 - Sequential pattern mining (SPM-II)
- Lecture 34 - Differential Sequence Mining (DSM)
- Lecture 35 - Process Mining
- Lecture 36 - Diagnostic Analytics - Clustering
- Lecture 37 - K-means Clustering
- Lecture 38 - Hierarchical Clustering
- Lecture 39 - Clustering - Examples
- Lecture 40 - Predictive Analytics
- Lecture 41 - Linear Regression
- Lecture 42 - Multiple Regression
- Lecture 43 - Logistic Regression
- Lecture 44 - Linear Regression - Example
- Lecture 45 - Predictive Analytics - II
- Lecture 46 - Naive Bayes Classifier
- Lecture 47 - Decision Tree
- Lecture 48 - Decision Tree Classifier
- Lecture 49 - DT, NB - Examples
- Lecture 50 - Text Analytics
- Lecture 51 - Introduction to NLP
- Lecture 52 - NLP-II
- Lecture 53 - NLP-Tools
- Lecture 54 - NLP-Examples
- Lecture 55 - Intro Multimodal Learning Analytics
- Lecture 56 - Affective Computing - 1
- Lecture 57 - Affective Computing - 2
- Lecture 58 - Eye Tracking
- Lecture 59 - Revision of Learning Analytics tools course
- Lecture 60 - Source of Data collection and Research Community
- Lecture 61 - Machine Learning tools used in industry