Mindluster Platform

About the course ML and Data Science

Supervised Learning algorithms , in this course provides a comprehensive introduction to supervised learning algorithms, a core area of machine learning. Youâ€™ll explore key concepts, including how models are trained on labeled data to predict outcomes for new inputs. The course covers popular algorithms such as Linear Regression, Logistic Regression, Decision Trees, Support Vector Machines (SVM), Random Forest, K-Nearest Neighbors (KNN), and Gradient Boosting methods like XGBoost. Learn how to solve classification and regression problems, evaluate model performance using metrics, and optimize hyperparameters. With practical examples and case studies, this course equips you with the skills to apply supervised learning techniques to real-world tasks such as fraud detection, healthcare analytics, and predictive modeling.

Computer Science Category's Courses

Course Lesson(38)

Lesson 1 : **Lec 1 Introduction to Data Science ML Roadmap to Learn Data Science ML**

Lesson 2 : **Lec 2 Supervised Learning Algorithms Machine Learning**

Lesson 3 : **Lec 3 Introduction to Regression with Real Life Examples**

Lesson 4 : **Lec 4 Linear Regression with Real life examples Calculations Easiest Explanation**

Lesson 5 : **Lec 5 Logistic Regression with Simplest Easiest Example Machine Learning**

Lesson 6 : **Lec 6 Linear Regression Vs Logistic Regression Supervised Learning Machine Learning**

Lesson 7 :
Lec 7 kNN Classification with Real Life Example Movie Imdb Example Supervised Learning

Lesson 8 : **Lec 8 Naive Bayes Classification Full Explanation with examples Supervised Learning**

Lesson 9 : **Lec 9 Introduction to Decision Tree with Real life examples**

Lesson 10 : **Lec 10 Decision Tree ID3 Algorithm with Example Calculations**

Lesson 11 : **Conditional Probability with Easiest Explanation Example**

Lesson 12 : **Introduction to Ensemble Learning with Real Life Examples Machine Learning**

Lesson 13 : **K mean Clustering with Numerical Example Unsupervised Learning Machine Learning**

Lesson 14 : **Hierarchical Clustering Agglomerative vs Divisive with examples**

Lesson 15 : **Single Linkage Clustering Agglomerative Clustering Hierarchical Clustering**

Lesson 16 : **Complete Linkage Clustering with Example Clustering in Unsupervised Learning ML**

Lesson 17 : **K medoids Clustering with Numerical Example Machine Learning**

Lesson 18 : **Random Forest in Machine Learning**

Lesson 19 : **kNN for Classified Regression with Easiest Explanation Machine Learning**

Lesson 20 : **Mean Median Mode with Real Life examples Machine Learning**

Lesson 21 : **Standard Deviation Variance with Examples**

Lesson 22 : **Bagging Bootstrap Aggregating in Machine Learning with examples**

Lesson 23 : **Supervised vs Unsupervised learning with real life example**

Lesson 24 : **Python code for Mean Median Mode SD Variance and Range**

Lesson 25 : **How Weights are Increased in Boosting Ensemble Learning**

Lesson 26 : **BAGGING vs BOOSTING vs STACKING in Ensemble Learning Machine Learning**

Lesson 27 : **Bayes Theorem Total Probability with Examples**

Lesson 28 : **Cross Validation in Machine Learning with Examples**

Lesson 29 : **Pearson s Correlation Coefficient Supervised Learning Data Science Machine Learning**

Lesson 30 : **kNN k Nearest Neighbour Numerical Example Supervised Learning Machine Learning**

Lesson 31 : **Decision Tree Example Calculate Entropy Information Gain Supervised Learning**

Lesson 32 : **Single Linkage Clustering Example Unsupervised Learning Machine Learning**

Lesson 33 : **Token Parameters in LLama3 META Models 8B 70B Parameters Model GPT model**

Lesson 34 : **What is Data Preprocessing Data Cleaning Various Techniques with Example**

Lesson 35 :
How to Deal with Missing Values in DataSet Data Preprocessing Data Cleaning Imputation Methods

Lesson 36 : **kNN Imputation with Examples Data Preprocessing and Data Cleaning**

Lesson 37 : **Fit Transform Method Data Preprocessing Machine Learning**

Lesson 38 : **Feature Extraction in Data preprocessing Machine Learning**

Related courses

Linear Algebra for Computer Scientists

Insertion Sort

Bubble Sort

GCSE Computer Science

Random Access Memory

Binary Trees

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