



<https://nettechindia.com/>



info@nettechindia.com

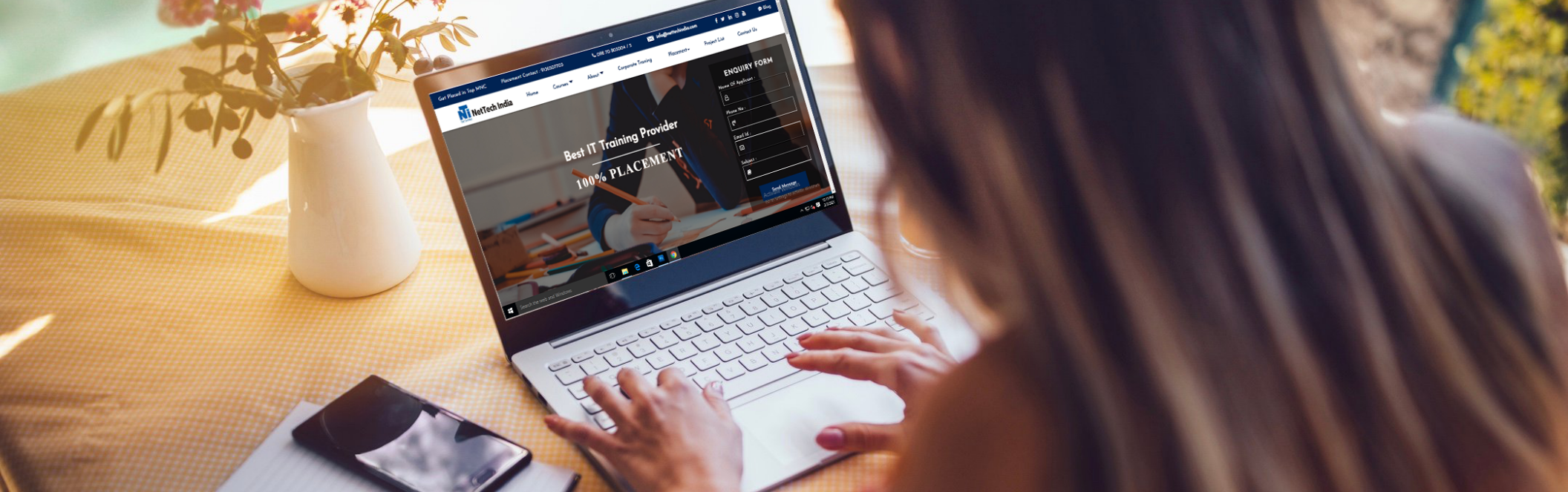


9870803004/5



# DATA MINING CERTIFICATION





# ABOUT US

NetTech India Training Institute offers a high-quality learning experience in the field of IT training to train students on brand new technologies and train them to deliver the desired results with commercially relevant and re-organized technical skills.

The probability of achieving your dream job will keep on increasing day by day once you complete a course in NetTech India. We also focus on improving soft skills in terms of communication, leadership, teamwork, external appearance, and attitude which helps everyone to be professional in all the aspects of their career. NetTech India team consists of highly qualified experts whom you can trust.

<https://nettechindia.com/>

# ABOUT DATA MINING CERTIFICATION

The data mining course will validate the candidate ability in the various fields including statistics, hypothesis testing, decision tree, cluster analysis, logistic regression, data valuation, regression, Spark, PROC, SAS Macros, advanced analytics, Matplotlib Excek analytics, Hypothesis testing, Kafka Interface and Zookeeper. These skills will further help you to strengthen your role as a data scientist. The program will provide an access to the high quality content to ensure that you follow the right path.



# BENEFITS OF DATA MINING CERTIFICATION

- ➔ Career Growth - Higher Pay & Position
- ➔ Encourages professional development
- ➔ Enriches self-image and reputation
- ➔ Enhances professional credibility.
- ➔ Abundant Job Opportunities
- ➔ Used In Many Industries
- ➔ Global Recognition
- ➔ Secure and Flexible
- ➔ 50+ Case Studies
- ➔ 10+ Projects



# TABLE OF CONTENTS

---

## **1 Introduction to Data Mining**

- What is data mining?
- Related technologies - Machine Learning, DBMS, OLAP, Statistics
- Data Mining Goals
- Stages of the Data Mining Process
- Data Mining Techniques
- Knowledge Representation Methods
- Applications
- Example: weather data

## **2 Data Warehouse and OLAP**

- Data Warehouse and DBMS
- Multidimensional data model
- OLAP operations
- Example: loan data set

### **3 Data preprocessing**

Data cleaning

Data transformation

Data reduction

Discretization and generating concept hierarchies

Installing Weka 3 Data Mining System

Experiments with Weka - filters, discretization

### **4 Data mining knowledge representation**

- Task relevant data
- Background knowledge
- Interestingness measures
- Representing input data and output knowledge
- Visualization techniques
- Experiments with Weka - visualization

### **5 Attribute-oriented analysis**

- Attribute generalization
- Attribute relevance

- Class comparison
- Statistical measures
- Experiments with Weka - using filters and statistics

## **6 Data mining algorithms: Association rules**

- Motivation and terminology
- Example: mining weather data
- Basic idea: item sets
- Generating item sets and rules efficiently
- Correlation analysis
- Experiments with Weka - mining association rules

## **7 Data mining algorithms: Classification**

- Basic learning/mining tasks
- Inferring rudimentary rules: 1R algorithm
- Decision trees
- Covering rules
- Experiments with Weka - decision trees, rules

## **8 Data mining algorithms: Prediction**

- The prediction task
- Statistical (Bayesian) classification
- Bayesian networks
- Instance-based methods (nearest neighbor)
- Linear models
- Experiments with Weka - Prediction

## **9 Evaluating what's been learned**

- Basic issues
- Training and testing
- Estimating classifier accuracy (holdout, cross-validation, leave-one-out)
- Combining multiple models (bagging, boosting, stacking)
- Minimum Description Length Principle (MLD)
- Experiments with Weka - training and testing

## **10 Mining real data**

- Preprocessing data from a real medical domain (310 patients with Hepatitis C).

- Applying various data mining techniques to create a comprehensive and accurate model of the data.

## **11 Clustering**

- Basic issues in clustering
- First conceptual clustering system: Cluster/2
- Partitioning methods: k-means, expectation-maximization (EM)
- Hierarchical methods: distance-based agglomerative and divisible clustering
- Conceptual clustering: Cobweb
- Experiments with Weka - k-means, EM, Cobweb

## **12 Advanced techniques, Data Mining software and applications**

- Text mining: extracting attributes (keywords), structural approaches
- (parsing, soft parsing).
- Bayesian approach to classifying text
- Web mining: classifying web pages, extracting knowledge from the web
- Data Mining software and applications

**And Many More...**



# WHO CAN LEARN ?

- Anyone who wants to build a career as a Data Scientist.
- Anyone who wish to gain knowledge about Programming
- Students who are currently in college or university

# CAREER OPPORTUNITIES

- Data Scientist
- Machine Learning Engineer
- Machine Learning scientist
- Applications Architect
- Enterprise Architect
- Data Architect
- Infrastructure Architect
- Data Engineer

**And Many More...**

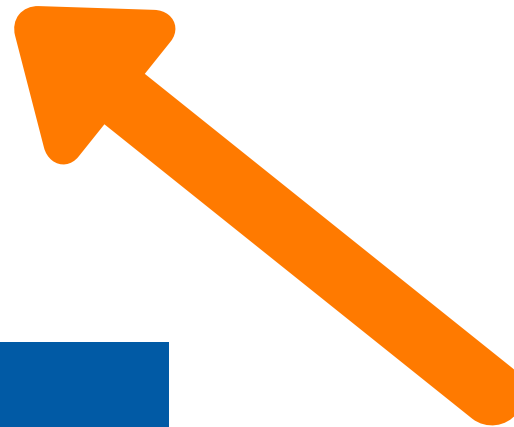


# PROCESS FOR **SUCCESS**

**GET PLACED**

**GET TRAINED**

**ENROLL**



# FACILITIES OFFERED

- ➔ Practical Training on Live Projects
- ➔ 100% Placement Guarantee
- ➔ Interview Preparation
- ➔ Global Certification
- ➔ Fully functional labs
- ➔ Online / Offline Training
- ➔ Study Materials
- ➔ Expert level industry recognized training





# NetTech India



203, Ratnamani Building,  
Dada Patil Wadi, Opp ICICI ATM,  
Near Platform No.1 Thane,  
Maharashtra 400601

9870803004/5



info@nettechindia.com



<https://www.nettechindia.com>

