



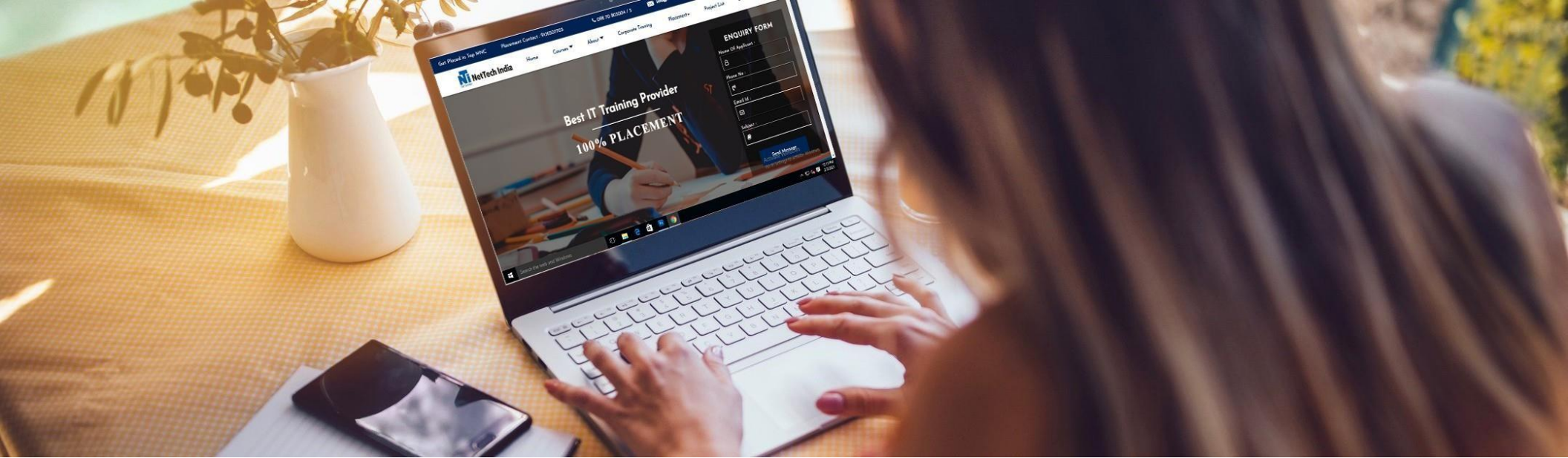
Advanced Certification Course in Machine Learning

- Practical Training
- Training From Expert Trainer
- Interview Preparation
- Complete Placement Assistance



CERTIFICATIONS OPTIONS AVAILABLE





ABOUT US

Infobyte Computers offers a high-quality learning experience in the field of IT training to 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 **Infobyte Computers**. 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.



25%

Theor



75%

Practical

S

ABOUT ML CERTIFICATION

Machine Learning Course provided by **Infobyte Computer** will help the candidate to be able to learn the different techniques and concepts, including mathematical and heuristic aspects, hands-on modelling to develop the algorithm and to ultimately prepare you for the job of machine learning engineer. Machine Learning is a quick and easy method to analyze a vast amount of complex data. The future of learning appears to be machine learning.



BENEFITS OF ML 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
- 50+ Projects



MACHINE LEARNING

1. Introduction of Statistics

- Descriptive statistics: Measure of Central Tendency, Measure of Dispersion, Measure of Shape
- Probability and sampling: Conditional probability, Bayes theorem
- Probability Distribution
- Hypothesis Test

2. Introduction to Machine Learning

- Introduction to Machine Learning
- Types of Machine learning
- Application of Machine Learning

3. Packages of Machine Learning

- Numpy
- Pandas
- Matplotlib
- Seaborn

4 Linear Regression

- Introduction to Linear Regression
- Understanding Ordinary Least Squares
- Cost Functions
- Gradient Descent
- Implementation with Scikit Learn
- Residual Plots
- Model Deployment and Coefficient Interpretation
- Bias Variance
- Regularization Overview
- Feature Scaling
- Introduction to Cross Validation
- Linear Regression Capstone Project

5 Logistic Regression

- Introduction to Logistic Regression
- The logistic Function
- Linear to Logistic
- Linear to Logistic Math
- Best fit with Maximum Likelihood
- Logistic Regression EDA and Model training
- Confusion Matrix and accuracy
- Classification Matrix Precision, Recall, F1 Score
- ROC Curves
- Logistic Regression Performance Evaluation
- Multiclass classification with Logistic Regression
- Logistic Regression Capstone Project

6. K-Nearest neighbours

- K-Nearest Neighbors
- Concept and theory
- Distance functions: Euclidean, Minkowski
- Why should we use KNN?
- Mathematical approach
- Dataset with problem description
- Practical application on Python
- KNN Capstone Project

7. Support Vector Machine

- Introduction to Support Vector Machine
- Hyperplanes and Margins
- Kernel Intuition
- Kernel trick and Mathematics
- SVM implementation Classification
- SVM implementation Regression
- SVM Capstone Project

8 Decision Tree

- Introduction to Tree based methods
- History and terminology
- Understanding Gini impurity
- Constructing Decision Tree with Gini impurity
- Implementation of Decision Tree
- Decision Tree Capstone Project

9. Random Forest

- Random Forest Introduction
- Random Forest Key Hyper parameters
- Number of Features and Estimators in Subset
- Bootstrapping and Out-of-Bag Error
- Classification using random forest on Python
- Regression using Radom forest on Python
- Random Forest Capstone Project

10. Boosting Methods

- Introduction to Boosting
- Boosting Methods
- AdaBoost theory and implementation
- Gradient Boosting theory and implementation

11. Naive Bayes

- 19 Supervised Learning Capstone Project - Cohort Analysis and Tree Based Methods

12. Naive Bayes Classification and Natural Language Processing (Supervised Learning)

- Introduction to NLP and Naive Bayes Section Theory of classification
- Naive Bayes Algorithm - Part One - Bayes Theorem
- Naive Bayes Algorithm - Part Two - Model Algorithm
- Capstone Project

13. Clustering

- Introduction of clustering
- K-mean clustering
- K-Means Clustering Implementation
- K-Means Color Quantization
- K-Means Capstone Project
- Hierarchical Clustering Implementation
- Hierarchical Clustering Capstone Project

14. DBSCAN - Density-based spatial clustering of applications with noise

- Introduction to DBSCAN
- DBSCAN Vs K Means Clustering
- DBSCAN Hyper Parameter
- DBSCAN - Hyperparameter Tuning Methods
- DBSCAN Capstone Project

15. Time Series Analysis

- Introduction to time series
- Components of Time Series: Trend, Seasonal, Cyclical
- Types of Forecasting methods: Autoregressive Model, Moving Average Model, Autoregressive Integrated Moving Average Model, Seasonal Autoregressive Integrated Moving Average Model
- Practical application on Python

16. Principal Component Analysis and Manifold Learning

- Introduction to PCA
- Manual Implementation
- PCA Scikit Learn

WHO CAN LEARN ?

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



CAREER OPPORTUNITIES

- ML Engineer
- Data Scientist
- AI Engineer
- Business Intelligence Developer
- Human Centered ML Designer
- Software Engineer/Developer

And Many More....



OUR RECRUITERS



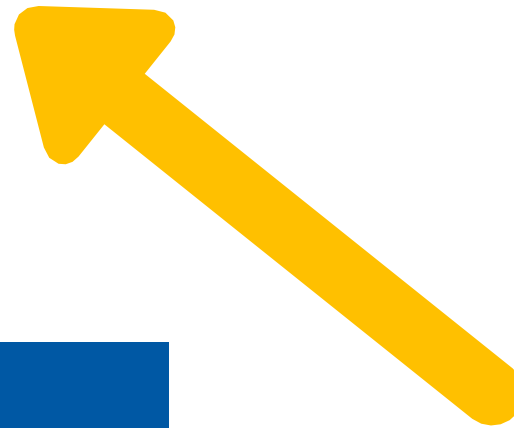
and Many

PROCESS FOR SUCCESS

GET PLACED

GET TRAINED

ENROLL



FACILITIES OFFERED

- Practical Training on Live Projects
- Complete Placement Assistance
- Interview Preparation
- Global Certification
- Fully functional labs
- Online / Offline Training
- Study Materials
- Expert Level Industry Recognized Training

