LEARN CERTIFY ENGAGE

COMPETE

Machine Learning

COURSE OUTLINE

Module 1 Introduction to Machine Learning
Module 2 Data Preprocessing and Exploration
Module 3 Supervised Learning Algorithms
Module 4 Unsupervised Learning Algorithms
Module 5 Ensemble Learning and Model Improvement
Module 6 Neural Networks and Deep Learning
Module 7 Special Topics in Machine Learning
Module 8 Machine Learning in Production

Module 10 Final Project

Module 01 Introduction to Machine Learning

Module 9 Practical Projects and Case Studies

What is Machine Learning?

Key Concepts and Terminology

Module 02 Data Preprocessing and Exploration

Data Preprocessing Techniques
Data Exploration and Visualization
Practical Implementation

Module 03 Supervised Learning Algorithms

Regression Algorithms Classification Algorithms Practical Implementation

Module **04 Unsupervised Learning Algorithms**

Clustering Algorithms
Dimensionality Reduction
Practical Implementation

Module **05** Ensemble Learning and Model Improvement Ensemble Methods
Hyperparameter Tuning
Practical Implementation

Module **06** Neural Networks and Deep Learning Introduction to Neural Networks Deep Learning Architectures Practical Implementation

Module 07 Special Topics in

Machine Learning

Natural Language Processing (NLP) Time Series Analysis Practical Implementation

Module 08 Machine Learning in

Production

Model Deployment Model Monitoring and Maintenance Practical Implementation

Module 09 Practical Projects and

Case Studies

Project Planning and Dataset Preparation Model Building and Training Deployment and Production

Module 10 Final Project

Project Proposal Implementation Evaluation and Presentation ARTIFICIAL INTELLIGENCE, THE FUTURE INTELLIGENCE. info@itsolera.com +923334471066 itsolera.com