MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

MACHINE LEARNING AND PREDICTIVE MODELS

"Transform Data into Actionable Insights Using Advanced Machine Learning and Predictive Analytics."

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** In-House Training

Introduction

Machine learning is at the heart of modern data-driven decision-making, enabling organizations to extract meaningful insights, predict future trends, and optimize operations. Predictive modeling uses historical data to forecast outcomes, identify patterns, and support strategic planning across industries such as finance, healthcare, marketing, and manufacturing.

The Machine Learning and Predictive Models Training course equips participants with the theoretical knowledge and practical skills required to build, evaluate, and deploy machine learning models. Participants will gain hands-on experience with predictive analytics techniques, algorithm selection, and real-world case studies to solve complex business problems.

Objectives

By the end of this course, participants will be able to:

- Understand the principles of machine learning and predictive analytics.
- Explore supervised, unsupervised, and reinforcement learning algorithms.
- Preprocess and clean datasets for effective modeling.
- Develop predictive models using regression, classification, and clustering techniques.
- Evaluate model performance using statistical and computational metrics.
- Apply feature engineering and selection for optimized model outcomes.
- Deploy predictive models for real-world decision-making and business insights.
- Understand ethical considerations and best practices in predictive modeling.

MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

Why Attend

Machine learning and predictive modeling skills are in high demand as organizations increasingly rely on data to drive strategic decisions. This course provides participants with hands-on experience in building predictive models, analyzing data patterns, and making informed decisions, enhancing both professional expertise and organizational value.

Target Audience

This course is suitable for:

- Data Scientists and Analysts
- IT Professionals and Software Developers
- Business Analysts and Decision-Makers
- Engineers and Technology Professionals
- Students and Graduates seeking expertise in machine learning
- Professionals involved in data-driven projects and predictive analytics

Individual Benefits

- Gain hands-on experience in machine learning algorithms and predictive modeling techniques.
- Learn to preprocess and analyze data effectively for accurate predictions.
- Enhance problem-solving, analytical, and decision-making skills.
- Increase employability and professional value in data science and analytics roles.
- Develop confidence in implementing predictive models for real-world scenarios.
- Acquire foundational knowledge to progress toward advanced AI and analytics applications.

Organizational Benefits

- Improve business decision-making through predictive insights.
- Optimize operations, forecasting, and resource allocation.
- Support data-driven strategy development and performance improvement.
- Build internal expertise in machine learning and predictive analytics.
- Enhance competitiveness through actionable insights and trend analysis.
- Foster a culture of innovation and data-driven problem-solving across teams.

Instructional Methodology

The training employs a practical, project-based approach through:

- Interactive lectures on machine learning concepts and predictive modeling
- Hands-on exercises using Python, R, or other relevant tools and frameworks
- Real-world case studies of predictive analytics applications
- Step-by-step tutorials for data preprocessing, model building, and evaluation
- Group projects and collaborative exercises to solve practical problems
- Assignments focused on applying predictive models to business scenarios
- Continuous feedback and Q&A sessions for individual improvement

MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

Course Outline

- Module 1: Introduction to Machine Learning – Concepts, Types, and Applications
- Module 2: Data Collection, Cleaning, and Preprocessing Techniques
- Module 3: Supervised Learning – Regression and Classification Models
- Module 4: Unsupervised Learning – Clustering and Dimensionality Reduction
- Module 5: Reinforcement Learning – Principles and Applications
- Module 6: Feature Engineering and Model Optimization
- Module 7: Model Evaluation Metrics and Performance Tuning
- Module 8: Predictive Analytics for Business Decision-Making
- Module 9: Ethical Considerations and Best Practices in Predictive Modeling
- Module 10: Capstone Project – Building and Deploying a Predictive Model for a Real-World Problem

Certification

Upon successful completion, participants will receive a Certificate in Machine Learning and Predictive Models, recognizing their ability to design, implement, and deploy predictive analytics solutions to support data-driven decision-making and business strategy.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**