

Machine Learning

Kuala Lumpur (Malaysia)

8 - 12 June 2026

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Machine Learning

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Introduction

Machine Learning ML is a powerful subset of artificial intelligence AI that focuses on developing algorithms and statistical models which allow computers to learn from data, adapt to new input, and make predictions or decisions without being explicitly programmed. The core idea is to enable computers to improve performance on specific tasks by learning from their experiences. This Machine Learning certification course offers an intro to machine learning along with practical applications of various machine learning methods and techniques in real-world scenarios. Whether you are new to the field or seeking to master machine learning, this course will empower you with essential skills, from machine learning basics to advanced machine learning techniques.

Course Objectives

Upon completing this course, participants will:

- Understand the basic concepts of machine learning and its different paradigms, including supervised learning, unsupervised learning, and reinforcement learning.
- Learn how to preprocess data and explore it to make it suitable for building accurate machine learning models.
- Gain familiarity with popular machine learning algorithms and their applications in diverse real-world scenarios.
- Develop the skills needed to evaluate, optimize, and fine-tune machine learning models to achieve optimal performance.
- Apply the principles and techniques of machine learning to solve complex problems and work on real-world projects.
- Learn the importance of machine learning monitoring and how to ensure your models stay effective in the long term.

Course Outlines

Day 1: Introduction to Machine Learning

- What is Machine Learning? Understanding the significance of ML in different industries.
- Overview of the types of machine learning: Supervised, Unsupervised, and Reinforcement learning.
- Data preparation: The importance of data collection, cleaning, and feature engineering for effective machine learning.
- Python Libraries for Machine Learning: Introduction to NumPy, Pandas, and Scikit-learn.
- Hands-on: Setting up the development environment and exploring datasets.

Day 2: Supervised Learning Algorithms



- Linear Regression: How to model relationships between variables for predictions.
- Logistic Regression: Understanding binary classification and probability estimation.
- Decision Trees and Random Forests: Building decision-making models and ensembling methods.
- Evaluation Metrics: How to evaluate model accuracy using metrics such as precision, recall, F1-score, and ROC curves.
- Hands-on: Implementing supervised learning algorithms on sample datasets.

Day 3: Unsupervised Learning Algorithms

- K-Means Clustering: Grouping similar data points together for better insights.
- Hierarchical Clustering: Creating cluster hierarchies in data.
- Dimensionality Reduction: Using Principal Component Analysis PCA for feature reduction.
- Anomaly Detection: Identifying rare instances within data.
- Hands-on: Applying unsupervised learning techniques to real-world datasets.

Day 4: Advanced Machine Learning Techniques

- Support Vector Machines SVM: Maximizing decision boundaries for classification.
- Neural Networks and Deep Learning: Introduction to building artificial neural networks.
- Model Selection and Hyperparameter Tuning: Using cross-validation and grid search for optimization.
- Handling Imbalanced Data: Techniques to address class imbalance in datasets.
- Hands-on: Building neural networks and fine-tuning models for improved performance.

Day 5: Special Topics in Machine Learning

- Natural Language Processing NLP: Techniques for text analysis and sentiment classification.
- Recommender Systems: Building personalized recommendation engines for diverse applications.
- Time Series Analysis: Predicting future trends from time-ordered data.
- Deploying Machine Learning Models: Best practices for integrating models into production applications.
- Hands-on: Completing a Machine Learning project from start to finish, applying all learned techniques.

Why Attend This Course: Wins & Losses!

- Comprehensive understanding of Machine Learning techniques, including supervised, unsupervised, and reinforcement learning, crucial for tackling real-world problems.
- Gain hands-on experience with popular machine learning algorithms, Python libraries like NumPy and Pandas, and learn how to effectively work with data.
- Master the skills required for model evaluation, optimization, and fine-tuning to ensure high-performance machine learning models.
- Get insights into advanced machine learning topics, including neural networks, SVM, NLP, and time series analysis, allowing you to apply ML in diverse industries.
- Gain a certification in machine learning, a valuable asset for advancing your career in the rapidly growing AI and tech fields.

Conclusion

This Machine Learning certification course provides an essential foundation for mastering machine learning techniques and applying them effectively across different industries. From machine learning basics to advanced machine learning techniques, this course will help you develop the skills necessary to work on complex data-driven

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problems. By the end of this course, you will be well-equipped with the knowledge to optimize models, utilize Python libraries, and deploy machine learning applications that can transform your organization or career.

Master machine learning and open new opportunities in the ever-evolving world of AI.



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