

MACHINE LEARNING

IN THE ALGORITHM ECONOMY, AI IS REVOLUTIONISING THE WORLD OF COMPUTING AND DIGITAL INTERACTIONS.



Market size is expected to grow from USD 1.03 Billion in 2016 to USD 8.81 Billion by 2022. Demand for Machine Learning (ML) engineers will soar 60% by 2020.

Source: MarketandMarkets

Machine Learning for Business Intelligence

HRDF Claimable! | Duration: 2 days instructor-led course



Course Overview

In this course, we introduce the field of machine learning and describe the well-known processes, algorithms, and tools for one to be a successful machine learning practitioner.

This course will help to build skills in data acquisition and modeling classification, and regression. In addition, one will also get to explore very important tasks such as model validation, optimization, scalability, and real-time streaming.



Course Objectives

- Introducing the basic concepts and practical applications of Machine Learning algorithms.
- Providing students with the capabilities to: (i) identify the long-term impact
 of machine learning to businesses; (ii) apply machine learning algorithms to
 their own real-world problems.



Prerequisites

Anyone working with Business Intelligence and Data Analysis.



Who Should Attend

Anyone who is keen to learn to learn more in-depth about Machine Learning and the real applications of Machine Learning for Business Intelligence today.



) Exam Format

Students will be given a Certificate of Attendance after successfully completing the course.



Students will be able to:

- Explain machine learning concepts & describe applications of well-known machine learning algorithms
- Apply machine learning techniques to a list of practical problems

Course Outline

Day 1: The Machine Learning Workflow	Day 2: Practical Applicat	tions
What is machine learning?	Example: NYC taxi data	Advanced feature engineering
 How Machines Learn Using Data to Make Decisions The Machine Learning Workflow: from Data to Deployment Boosting Model Performance with Advanced Techniques 	Data visualization and preparationModeling	Advanced text featuresImage featuresTime-series features
Real-world dataModeling and prediction	Advanced Natural Language Processing (NLP) example: movie review sentime	
 Data collection Basic machine learning Pre-processing data for modeling modeling Using data visualization Classification Regression 	 Exploring data and use case Extracting basic NLP features and building the initial model Advanced algorithms and model deployment considerations 	
Model evaluation and optimization	Scaling machine-learning workflows	
 Model generalization: evaluating predictive accuracy for new data Evaluation of classification models Evaluation of regression models Model Optimization through Parameter Tuning 	 Before scaling up Scaling Machine learning modeling pipelines Scaling predictions 	
Basic feature engineering	Example: digital display advertising	
 Why is Feature Engineering Useful? Basic feature engineering process Feature selection 	 Digital Advertising Digital Advertising Data Feature Engineering and Modeling Strategy Size and Shape of Data Singular Value Decomposition 	 Resource Estimation and Optimization Modeling K-nearest neighbors Random forests Other Real Word Considerations

Testimonials

Hear what Our Students Have to Say

This is a good course to learn the overall idea of machine learning implementation, which comes with some hands on exercises.

Rosdy Bin Ab Aziz @ Achit, IT Executive TM Berhad.

The trainer answers your questions based on his real experience which you can easily relates with your current works.

Faridah Hani, UNITEN

