



Data Science
and
Machine Learning

Training Programme
by
Faculty of Engineering
Multimedia University

7 November 2020 or
7 December 2020
Faculty of Engineering

Overview

This module will provide an overview of Data Science, important of it especially in the current industry that is moving towards IR4.0. The participants will review the basics of the data types and the ways of handling the data. Then use the data to build prediction models. Finally, the participants will build their own model in a mini project.

Objective

At the end of the session, participants will be able to:

1. Understand the Data Science and Machine Learning
2. Do a predicting using Machine Learning techniques

Target Audience

This course is open to anyone who would like to enhance their knowledge in handling the data, build a prediction model and become a Data Scientist in future.

Prerequisite

Basic knowledge of Python programming.

Training Methodology

Classroom/ Lab Demo and Exercises.

Course Duration

1 day.

Content/Outline

Data Science Overview

- What is Data: Raw data, small data, big data

- Type of Data: Structure and Unstructured data
- What is Data Science
- Data Science Lifecycle

Python and Machine Learning Libraries

- Data Preparing
- Data Cleansing
- Handling categorical data and numerical data

Machine Learning algorithm

- Regression: Linear and polynomial
- Naïve bayes
- K Nearest Neighbour (K-NN)
- K-mean Clustering
- Model Deployment
- Exercise for each techniques

Mini project – Hands On

Course Instructors

Dr. Tan Yi Fei

Tan Yi Fei holds a BSc(Hons), MSc and PhD in Mathematics from University of Malaya, Malaysia since 1998. She has more than 20 years of teaching experience in local university. She is actively conducting research on the area of Image Processing and Queueing Theory. Currently, she is focusing on data analysis and predictive analysis in Big Data Analytics. She is a project leader/member for various grants since 2006. Over the years, she has attended international conferences on different occasions and published numerous international

journal papers on her research interest. Besides, she is a member of Malaysian Mathematical Sciences Society.

Administrative Details

Programme Logistics

Duration: 1 day only

Date: 7 November 2020 and 7 December 2020

Venue: MMU Computing Lab

Registration Deadline: 24 Oct 2020 and 23 Nov 2020

Your Investment

Condition		Price per Pax
Regular Fee (After 3 Oct, 2 Nov)	Students / MMU Alumni	RM350
	Public	RM600
	Public (Group >5 pax)	RM500
Early Bird Fee (Before 3 Oct, 2 Nov)	Students / MMU Alumni	RM250
	Public	RM500
	Public (Group >5 pax)	N/A

Method of Payment

Please make payment via bank transfer only. Account details is as below:

Account name: Unitele Multimedia Sdn Bhd

Account number: 86-0090180-2

Bank: CIMB Islamic Bank Berhad

Payment must be made by the registration deadline.

Refund and Cancellation

Any refunds will be processed in 60 days. Should there be any cancellation, it may be due to the organizer not getting the minimum participants or the participant failing to attend the workshop due to unavoidable reason.

Disclaimer

Faculty of Engineering, Multimedia University reserves the right to change the instructors, date and to vary/cancel the programme should unavoidable circumstances arise. All effort will be taken to inform participants of the changes. Upon submission of the registration form, you are deemed to have read and accepted the terms.

Enquiries

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Registration Form

To register, please visit this link: <https://forms.gle/PnQ5dX2gg9ssddf49>