**Short Course**

# Introduction to Deep Learning

Lecture: 16 – 19 Nov 2020

Practical: 20 Nov 2020

Venue: Blk S17 Seminar Room & Computer lab

## Objective

Deep learning is a powerful machine learning tool for artificial intelligence and data sciences, with a wide range of real-world applications. This course aims at introducing basic concepts, numerical algorithms, and computing frameworks in deep learning. The emphasis is on the numerical algorithms, implementation in industrial computing framework, and examination on real data-intensive problems drawn from practical applications. At the end of this course, students will acquire the basic understanding on the fundamentation of deep learning, master the most often used computational tools, and be able to use them to solve practical problems. Major topics include: Basics on learning theory, clustering, supervised learning, deep neural network, programming in python, tensor flow.

**Target Participants:** Data Analyst, Big Data Consultants, Advertising Analysts, Customer Insights Analysts, Data Engineers, Data Managers, Marketing Analysts, Product Managers, Chief Technology Officer, Chief Information Officer and Chief Digital Officer

## By 1st October 2020

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