Module Overview

ST1511 (AIML) AI & MACHINE LEARNING

Module Aims

AIML aims to provide students with hands-on experience in building machine learning systems using advanced algorithms such as kernel methods and neural networks.

Module Topics

TERM I

Section 1

- Topic 1 Introduction to Artificial Intelligence (AI)
- Topic 2 Applying Machine Learning (ML) using Cloud tools
- Topic 3 Python ML

Section 2

- Topic 4 Python Supervised ML (Classification & Regression)
- Topic 5 Model Improvement

TERM II

Section 3

- Topic 6 Python Unsupervised ML
- Topic 7 Time Series

Section 4

- Topic 8 Implementing Bots

Assessment

The assessment for this module has the following components:

1. CA1: Assignment 1	40%
2. CA2: Assignment 2	40%
3. CA3: General Performance	20%
Total	100%

References

1.	Aurélien Géron, 2017. Hands-On Machine Learning with Scikit-Learn and TensorFlow. O'Reilly.
2.	Goodfellow, I., Bengio, Y. and Courville, A., 2016. Deep learning. MIT Press.
3.	Müller, A.C., Guido, S., 2017. Introduction to machine learning with Python a guide for data scientists. OReilly, Beijing.
4.	Raschka, S., 2017. Python machine learning Second Edition. Packt Publishing, Birmingham.
5.	Shevat, A., 2017. Designing Bots: Creating Conversational Experiences. O'Reilly.