**INFORMATICS INSTITUTE OF TECHNOLOGY**

**In Collaboration with UNIVERSITY**

**OF WESTMINSTER, UK**

BEng (Hons) in Software Engineering

Final year Project 2018/2019

**Thesis Report**

For

# Machine Learning Based University Time Table Scheduler And Management Application

By

Student Name:- Visura De Silva

Student Number:- 2015149

UOW Number:- w1582959

Supervised by: - Ms. Sulochana Rupasinghe

Submission Date :- 2019/05/06

…………………………….

**Supervisor Signature**

……………………………..

**Student Signature**

# Abstract

Educational industry is one of the largest industries that exists in the world. It's has a role of very crucial part of every developing culture/civilization. For most success full educational environment Propper time management and its resource management is very important, and the management must be very steady and accurate about these areas. So, to avoid unnecessary latency by managing these scheduling by manually more accurate and fast solution is needed.

Ones necessary inputs are fulfilled such as Classes, Instructors, Departments, Recourses, Working Hours, Rooms (Available Lecture Halls) and other classifiers. User can generate a schedule that optimized a way to satisfy user need such as major and minor constrains of the scheduling major as generating a schedule minor as balancing the user flexibility of using that generated schedule. First after inputting the necessary inputs system will automatically generate a time table schedule for user specifications that user currently provided and after that user has the ability to change (Edit) the current generated schedule and manage the component inside that schedule. From using this system user will be free of having to spend their time and energy for another tasks.