



## Lesson Plan

# Cloud & Deployment for ML

In this course, Basics of AWS (Account management-EC2-IAM) are covered, API concept (Flask API), deployment of ML models through cloud (aws) by using Streamlit and Flask framework is shown. Also Basics of Docker and some other tools (ngrok, tmux) are taught.

**Custodian** : David\_C-Instructor (david.c@clarusway.com)

**In-class Sessions** : 8 Sessions / 24 hours

**Lab Sessions** : 2 Labs / 2 hours

## Certification Requirements:

1. % 75 attendance to in-class lessons (at least 6/8 for MLD Course)
2. Successfully complete and submit the projects

## Prerequisites

- Python
- ML

## Course Outline

1. Cloud for ML
  - 1.1. AWS Account management
  - 1.2. IAM
  - 1.3. EC2
2. Deployment of ML Models
  - 2.1. Streamlit
  - 2.2. Flask
  - 2.3. Ngrok
  - 2.4. Tmux
3. Docker



## Materials & Resources

- Clarusway Learning Management System (LMS)
- Flask Documentation
- Streamlit Documentation
- AWS Documentation

## Tools and Software

- Zoom, Slack, Peardeck Applications
- Jupyter Notebook
- VSCode

## Assignments & Projects

### Project

1. Deployment of ML Model via Cloud by using Streamlit/Flask

