

Syllabus

Module 1 - Introduction to Deep Learning

- Introduction to Deep Learning
- Biological Neural Networks
- Artificial Neural Networks - Forward Propagation

Module 2 - Artificial Neural Networks

- Gradient Descent
- Backpropagation
- Vanishing Gradient
- Activation Functions

Module 3 - Deep Learning Libraries

- Introduction to Deep Learning Libraries
- Regression Models with Keras
- Classification Models with Keras

Module 4 - Deep Learning Models

- Shallow and Deep Neural Networks
- Convolutional Neural Networks
- Recurrent Neural Networks
- Autoencoders

Module 5 - Course Assignment