

Deep Learning Essentials

Welcome to the course!

This is an advance level course designed for people interested in Machine learning, Data Science and Deep learning.

At the end of this course, you will learn the theory behind deep learning, about neural networks and important deep learning algorithms such as:

- Artificial neural networks
- Convolutional neural networks
- Recurrent neural networks

You will also learn about most used deep learning models. In the end, you will code your first neural network using Python and scikit-learn.

Introduction

- Instructor and Course Introduction

Module 1

Understanding Deep Learning

- Introduction to deep learning
- Core concept of deep learning
- Three types of learning

Module 2

Types of Neural Networks

- Artificial neural networks
- Convolutional neural networks
- Recurrent neural networks

Module 3

- Future Research