

4th Institute of Space Sciences Summer School: Artificial Intelligence for Astronomy

Monday 12 July 2021 - Friday 16 July 2021

Institute of Space Sciences

Programme Overview

- Lectures
- Machine Learning Overview
- Introduction to Deep Learning
- Convolutional Neural Networks
- Fully connected Neural Networks
- Advance Deep Learning
- Unsupervised Representation
- Natural Language Processing
- Graph Neural Networks
- Generative models
- Applications in astronomy
- Applications outside astronomy
- Hands-on
- Introduction to ML
- Neural network and backpropagation from scratch with Numpy
- Image classification