Intro to Machine Learning

Introductory Course

Goal:

learn about ML as engineering discipline and prepare to use the technology data science projects

Requirements: Windows 10 or Linux Ubuntu with PyCharm Community Edition IDE with JetBrains Academy plugin installed

python 3.10 plus pytorch library installed.

Curriculum:

Class 1 Background mathematics for ML and AI

Class 2 Supervised learning

Class 3 Activation functions

Class 4 Deep Networks and composition of networks

Class 5 Loss functions

Class 6 Gradient descent

Class 7 Backprop

Class 8 MNIST digit recognition

Class 9 Regularization

Class 10 Convolution

Class 11 Normalization