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Syllabus

Syllabus

Module 1 - Tensors and Gradients

- Tensors
- Derivatives
- Dataset Class

Module 2 - Fundamentals of PyTorch with Linear Regression

- Prediction 1D Regression
- Training 1D Regression
- Stochastic and Batch Gradient Descent
- PyTorch Way
- Model Validation
- Higher Dimensional Linear Regression

Module 3 - Logistic and Softmax Regression

- Logistic Regression Prediction
- Training Logistic Regression
- Softmax Regression

Module 4 - Feedforward Neural Network

- Neural Networks
- Back Propagation
- Activation Functions
- Building Deep Networks In Pytorch

Module 5 - Deep Networks

- Dropout
- Initialization

Module 6 - Intro to Convolution

- What's Convolution?
- Multiple Channel Convolution
- Activation Max Pooling
- Convolutional Neural Network

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