

Basics of neural networks whose knowledge will be assumed in the course (from 568):

- activation functions (sigmoid, tanh, ReLU, softmax ...)
- DNNs (aka MLPs)
- CNNs and ResNet
- Universal approximation theorem
- Backpropagation
- Vanishing/exploding gradient problem
- Overfitting
- Train/val/test
- Stochastic gradient descent
- Minibatches, learning rates, momentum
- Early stopping, model selection