

DEEP LEARNING



CURRICULUM

» Image: Convolutional Neural Networks

- What is computer vision?
- Why Convolutions (CNN)?
- Introduction to CNN
- Train a simple convolutional neural net
- Explore the design space for convolutional nets
- Pooling layer motivation in CNN
- Design a convolutional layer application
- Understanding and visualizing a CNN
- Transfer learning and fine-tuning CNN

» Detection & Recognition

- Padding & Edge Detection
- Strided Convolutions
- Networks in Networks and 1x1 Convolutions
- Inception Network Motivation
- Data Augmentation
- Object Localization
- Landmark Detection
- Object Detection
- Bounding Box Predictions
- YOLO Algorithm
- What is face recognition?
- One Shot Learning
- Siamese Network
- Triplet Loss
- Face Verification and Binary Classification
- What is neural style transfer?
- What are deep ConvNets learning?

» Recurrent Neural Networks

- Why use sequence models?
- Recurrent Neural Network Model
- Notation
- Back-propagation through time (BTT)
- Different types of RNNs
- Language model and sequence generation
- Sampling novel sequences
- Vanishing gradients with RNNs
- Gated Recurrent Unit (GRU)
- Long Short Term Memory (LSTM)
- Bidirectional RNN
- Deep RNNs

» Models of Recurrent Neural Networks

- Sequence models & Attention mechanism
- Basic Models
- Picking the most likely sentence
- Beam Search
- Refinements to Beam Search
- Error analysis in beam search
- Attention Model Intuition
- Attention Model
- Speech recognition
- Trigger Word Detecti

Partners :



Java



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