

Convolutional Neural Networks

Definition

- Algorithm
- Kernel/Filter
- Stride Length

Famous Architectures

- LeNet
- AlexNet
- VGGNet16
- GoogleNet/Inception
- ResNet

Hyperparameters

- Number of Filters
- Filter Shape
- Max Pooling Shape

Design

- Convolutional
- Pooling
- Fully Connected
- Receptive Field
- Weights

Libraries

- Caffe
- Deeplearning4j
- Dlib
- TensorFlow
- Theano
- Torch

APIs

- Keras

Applications

- Image Recognition
- Image Classifications
- Video Analysis
- Natural Language Processing
- Go