



Outline of the presentation

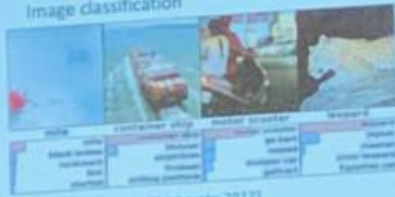
1. History of AI and Machine Learning
2. Applications of AI in Speech Recognition, Natural Language Processing and Search
3. Neural Networks for AI: Theory, Networks and Backpropagation
4. The Cognitive Implications of the Cloud
5. Applications of AI in the Real World: Supply, Demand and the Future of AI

Outline of the presentation

1. History of AI and key enabler technology
2. Applications of AI in Speech, Computer Vision, Natural Language Processing and Games
3. Building blocks for AI- Neural Networks and Backpropagation
4. Training neural networks in the Cloud
5. Frameworks for implementing neural networks: Numpy, Tensorflow and PyTorch
6. Outline of the course (16 sessions of ~ 1 hour each)

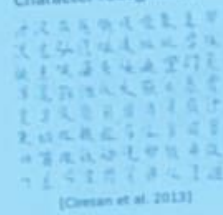
Applications of AI in Computer Vision

Image classification



[Krizhevsky 2012]

Character recognition



Object detection



[Foster & CNN - Ran 2015]

Object segmentation



[NVIDIA dev blog]



Applications of AI in Speech

Speech to Text: Whisper, Mozilla DeepSpeech, Google, AWS Transcribe



