

Shallow Intro to Deep Learning'19

Intro



Lecturer: Jan van Gemert

Why Deep Learning?



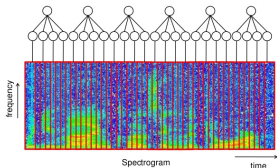
Image: Google Research Blog

Image



Text

Convolutional DBN for audio



Speech

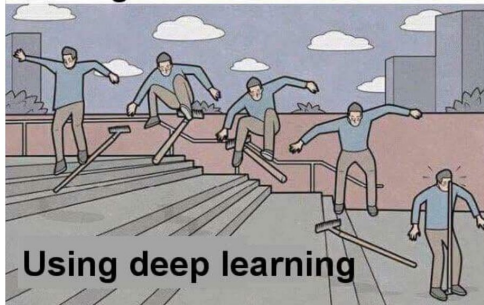


Go

Deep learning and Machine learning



Using traditional machine learning methods



Using deep learning

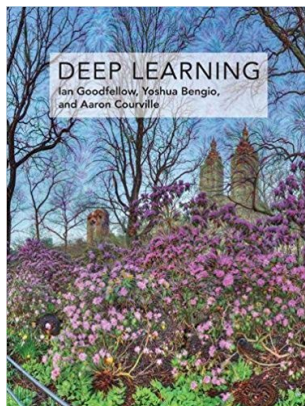
Topics and book

Book: "Deep Learning", Goodfellow et al.

Freely available online: <http://www.deeplearningbook.org/>

Plan:

- 1 General introduction
- 2 Intro and feed forward (Ch.: 4, 5, 6)
- 3 CNNs (Ch.: 9)





Whoami: Jan van Gemert

- BSc Computer Science @ Fontys
- MSc Artificial Intelligence @ UvA
- Internship Mitsubishi Research Lab, @ Boston, USA
- PhD Computer Vision @ UvA
- Postdoc @ ENS, Paris & @ UvA
- Head Computer Vision lab @ EWI-TUD

Research topics: Computer vision; Adding knowledge priors to deep learning.

Questions?