Introduction to Machine Learnining

Day 10: Neural Networks







Agenda

Day 10

Recap of Day 9

Natural Language Processing

Bag of Words Model

Data Cleaning

Neural Networks

Artificial Neural Networks

Convolutional Neural Networks

Comparative Analysis of Bootcamp

Quick Recap

NLP

Data Cleaning

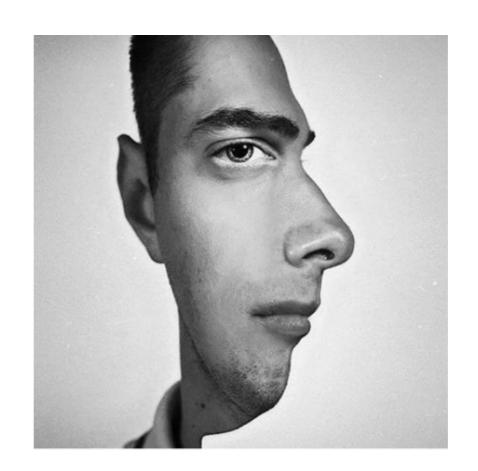
Library: nltk

Library: re

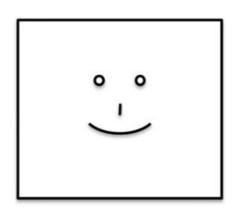
Deep Learning

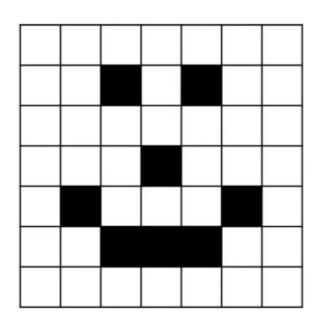
Neural Networks

- ANN
- CNN









0	0	0	0	0	0	0
0	1	0	0	0	1	0
0	0	0	0	0	0	0
0	0	0	1	0	0	0
0	1	0	0	0	1	0
0	0	1	1	1	0	0
0	0	0	0	0	0	0

Convolution

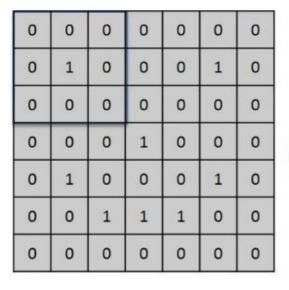
$$(fst g)(t) \stackrel{ ext{def}}{=} \int_{-\infty}^{\infty} f(au)\,g(t- au)\,d au$$

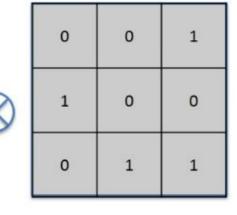
Max Pooling

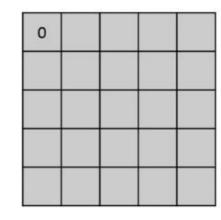
Flattening

Full Connection

Convolution



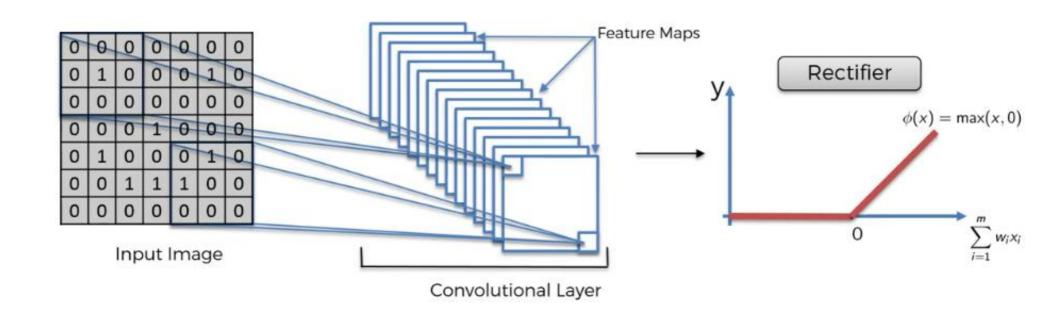




Input Image

Feature Detector Feature Map

Convolution



Thank You for attending

This session was presented by ACM JUIT

