

Neural networks

Architectures and training tips

Who? Sebastian Björkqvist

From? IPRally Technologies

When? 09.01.2019

Why neural networks?

- Can approximate any function [Hornik, 1991]
- May learn to respond to unexpected patterns
- Useful especially when the amount of data is large
- Less need for feature engineering compared to traditional ML methods

References



Nielsen, Michael A. *Neural Networks And Deep Learning*. Determination Press, 2015.

<http://neuralnetworksanddeeplearning.com/>



Hornik, Kurt. *Approximation Capabilities of Multilayer Feedforward Networks*. *Neural Networks*, 4(2), 251–257, 1991.