Neural Networks: 80 Years of Evolution

Legend:
- Foundations
- First Winter
- Revival
- Second Winter
- Deep Learning Era

Perceptron (1957)
Learning machine

Backpro (1...)
Multi-lay...

Universal Approx (1989)
Mathematical proof

Deep Belief Nets (2006)
Deep training...

ResNet (2015)
152 lay...

BERT/GPT (2018)
...nderstanding

GPT-4 (2023)
Multim... AI

McCulloch-Pitts (1943)
First neural model

XOR Crisis (1969)
AI Winter Begins

NetTalk (1987)
Practical success

LeNet (1998)
CNN for digits

AlexNet (2012)
ImageNet breakthrough

Transformer (2017)
Attention revolution

GPT-3 (2020)
175B parameters