Modern Deep Learning Architectures: 2012-2024

CNN Era

Transformer Era

LLM Era

AlexNet
(CNN revolution)

ResNet
(Skip connections)

BERT
(Bidirectional LM)

GPT-3
(175B parameters)

GPT-4
(Multimodal)

VGG/GoogLeNet
(Deeper nets)

Transformer
(Attention is all you need)

GPT-2
(Large language model)

ChatGPT
(RLHF breakthrough)

Claude/Gemini
(Competition)

2012   2014   2016   2018   2020   2022   2024