

# Perceptron and Neural Networks

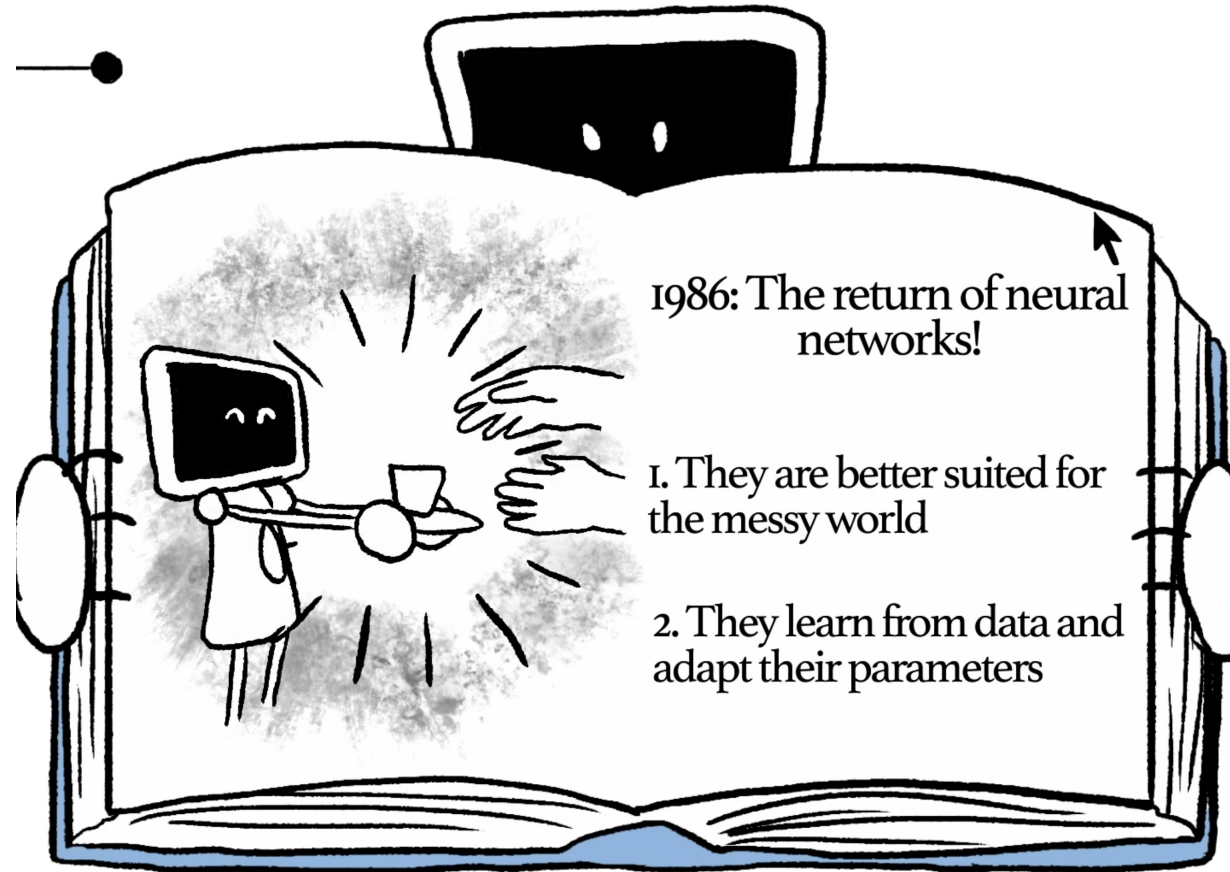
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Your AI Journey Starts Here

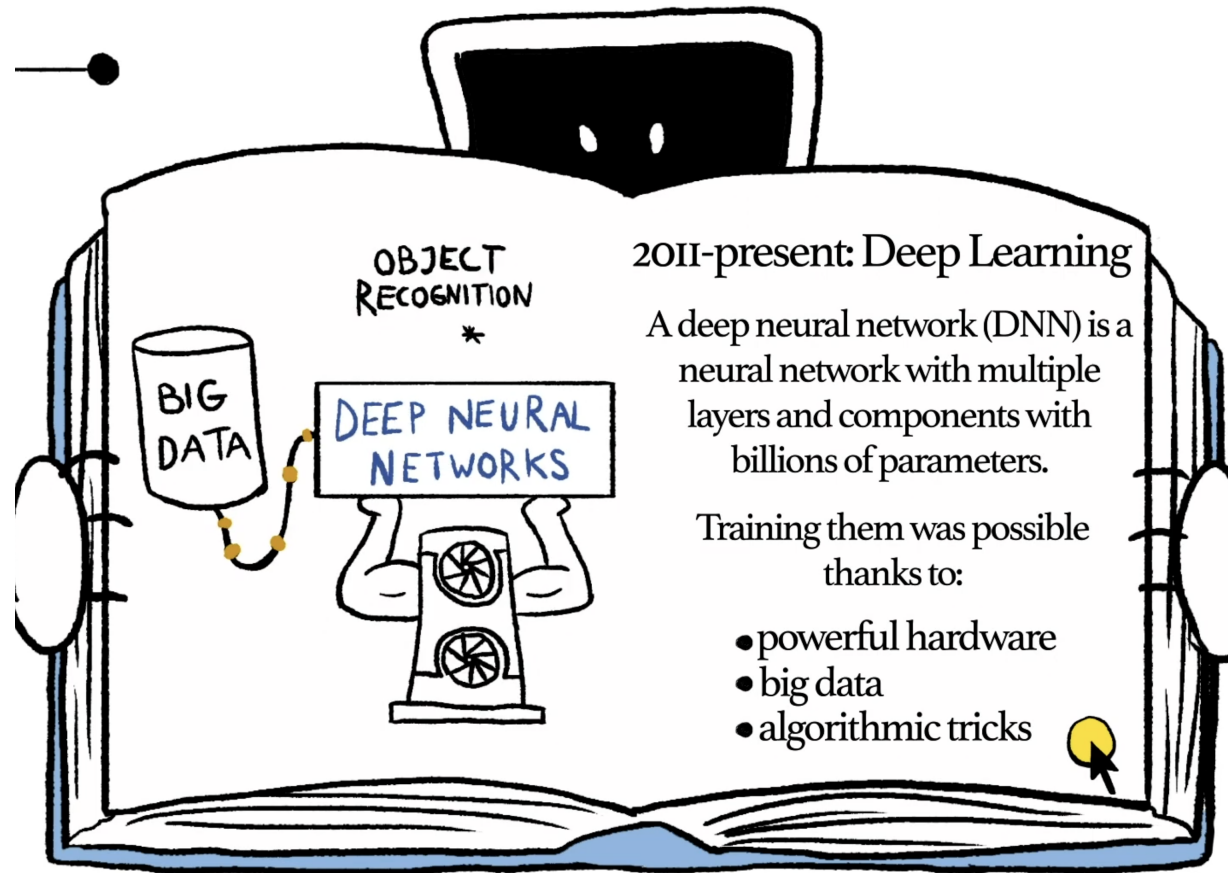


# Why Neural Networks?

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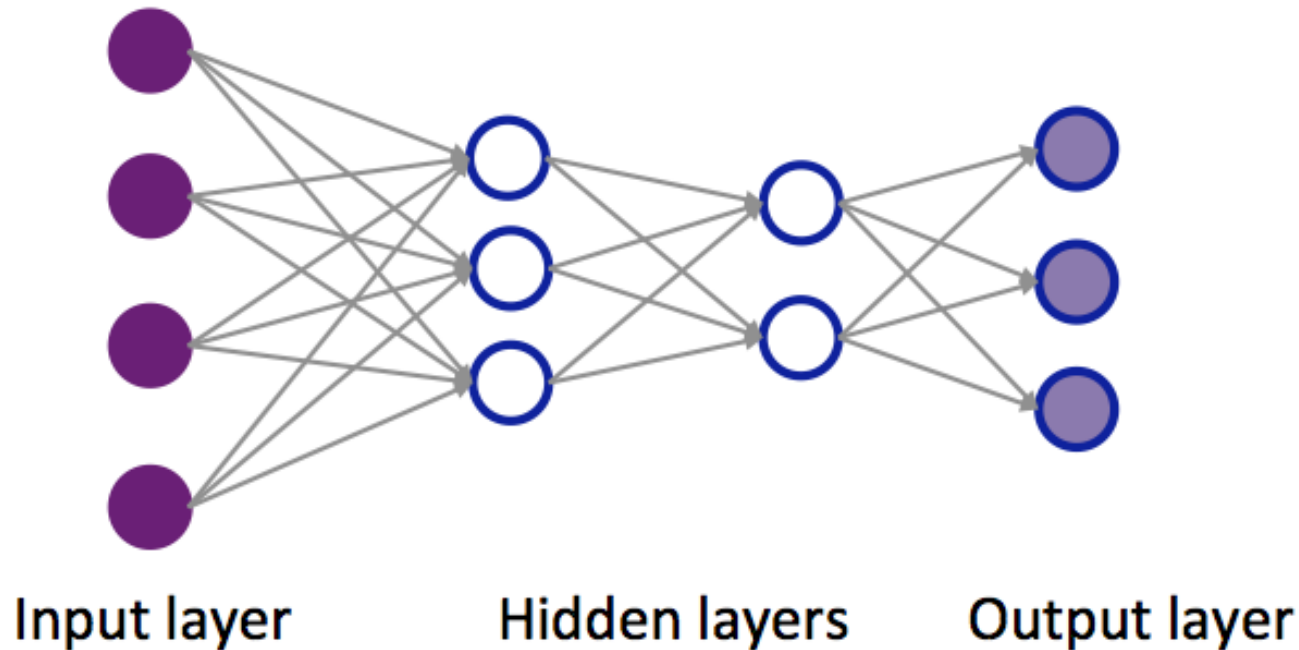
# Neural Networks

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- Algorithms that try to mimic how the brain functions.
- Worked extremely well to recognize:
  1. Handwritten characters (LeCun et a. 1989),
  2. spoken words (Lang et al. 1990),
  3. faces (Cottrel 1990)
- Extensively studied in the 1990's with a moderate success.
- Now back with lots of success with deep learning thanks to the algorithmic and computational progress.
- The first algorithm used was the Perceptron (Resenblatt 1959).

# Neural Networks

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**What is deep learning:** means using a neural network with a series of hidden layers of non-linear operations between input and output.