Early Experiments and Foundations (1943-1956)

1943: McCulloch and Pitts develop the first mathematical model of an artificial neuron

1950: Alan Turing proposes the Turing Test

1956: The Dartmouth Conference marks the birth of AI as a field of study

Symbolic AI and Early Neural Networks (1957-1969)

1957: Frank Rosenblatt invents the Perceptron

1950s-1960s: Early AI research focuses on symbolic AI

1969: Minsky and Papert publish 'Perceptrons'

Knowledge-based Systems (1970s-1980s)

1970s-1980s: AI research shifts towards knowledge-based systems and expert systems

1986: Hinton, Rumelhart, and Williams introduce the backpropagation algorithm

1990s: Development of machine learning algorithms

Probabilistic Methods and Deep Learning (Late 1990s-2000s)

Late 1990s-2000s: AI research incorporates probabilistic methods and statistical approaches

2006: Geoffrey Hinton coins the term 'deep learning'

2009: Fei-Fei Li, Jia Deng, and colleagues release the ImageNet dataset

Deep Learning Breakthroughs (2012-present)

2012: AlexNet wins the ImageNet Large Scale Visual Recognition Challenge

Mid-2010s: Deep learning research expands into various fields

Late 2010s: The rise of transformer-based models

2020s: Foundation Models,RLHF