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On the History and Present of Neural Networks

Tuesday, 29 October 2024 09:10 (20 minutes)

The evolution of neural networks from their early conceptual roots in the 1940s to their modern-day applications are presented.

Starting with McCulloch and Pitts' model of neurons, we explore key milestones like Rosenblatt's perceptron, the multiple rediscovery of backpropagation, the Hopfield networks and boltzmann machines, and the advent of deep neural networks. The discussion will highlight challenges, breakthroughs, and future directions, offering a comprehensive overview of how neural networks have shaped, and continue to shape, artificial intelligence.

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