# Introduction to Neural Network and Deep Learning

Neural networks are a type of artificial intelligence inspired by the human brain. They consist of interconnected nodes called neurons, which process information and learn from experience.

The first neural network was the perceptron, but it had limitations. In the 1980s, Geoffrey Hinton invented backpropagation, making neural networks much more efficient.

Neural networks are now used in various applications, including image recognition, natural language processing, and speech recognition.

The input layer receives information from the outside world. The information then passes through hidden layers, responsible for learning and processing the information. The final layer produces the network's results.