## Deep Neural Networks

## 1 Introduction

Deep neural networks (DNNs) is a class of machine learning algorithms similar to the artificial neural network, inspired by the structure and function of the human brain, designed to learn complex patterns through multiple layers of transformations. [1] DNNs consist of multiple layers of interconnected neurons, each layer transforming its input into an output through a nonlinear function. [2]

## References

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- [2] I. Goodfellow, Y. Bengio, and A. Courville. Deep Learning. MIT Press, Cambridge, MA, 2016.