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a neural network is a machine learning program or model that makes decisions in a manner similar to the human brain by using processes that mimic the way biological neurons work together to identify phenomena weigh options and arrive at conclusions

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a neural network is a group of interconnected units called neurons that send signals to one another neurons can be either biological cells or mathematical models while individual neurons are simple many of them together in a network can perform complex tasks there are two main types of neural network

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neural networks are a type of artificial intelligence that can learn from data and perform various tasks such as recognizing faces translating languages playing games and more neural networks are inspired by the structure and function of the human brain which consists of billions of interconnected cells called neurons

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softmax attention is the principle backbone of foundation models for various artificial intelligence applications yet its quadratic complexity in sequence length can limit its inference throughput in long context settings to address this challenge alternative architectures such as linear attention state space models ssms and recurrent neural networks rnns have been considered as more

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