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One of the earliest important theoretical guarantees about neural network architecture came three decades ago. In 1989, computer scientists proved that if a neural network has only a single computational layer, but you allow that one layer to have an unlimited number of neurons, with unlimited connections between them, the network will be capable of performing any task you might ask of it.

Foundations Built for a General Theory of Neural Networks ...

Martin Anthony, Peter L. Bartlett, "Neural Network Learning: Theoretical Foundations" Cambridge University Press | 3119-19-31 | ISBN: 163333963X | 616 pages | PDF | 9, 6 MB This important work describes recent theoretical advances in the study of artificial neural networks. It explores probabilistic models of

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Abstract: Classical theory that guides the design of nonparametric prediction methods like deep neural networks involves a tradeoff between the fit to the training data and the complexity of the prediction rule. Deep learning seems to operate outside the regime where these results are informative, since deep networks can perform well even with a perfect fit to noisy training data.