

Artificial Intelligence Systems Neural Networks and Neuron Types Mapping Reference Matrix

	Backfed Input Neuron	Convolution Kernel/Pool Neuron	Different Memory Neuron	Hidden Neuron	Input Neuron	Kernel Neuron	Match Input/Output Neuron	Memory Neuron	Noisy Input Neuron	Output Neuron	Probabilistic Hidden Neuron	Recurrent Memory Neuron	Recurrent Neuron	Spiking Hidden Neuron
AutoEncoder (AE)	X			X	X		X							
Boltzmann Machine (BM)					X					X				
Deconvolutional Network (DN)		X			X	X	X							
Deep Belief Network (DBN)	X			X	X		X			X				
Deep Convolutional Inverse Graphic Network (DCIGN)		X		X	X	X	X							
Deep Convolutional Network (DCN)		X		X	X					X				
Deep Feedforward (DFF)				X	X					X				
Deep Residual Network (DRN)				X	X					X				
Denoising AutoEncoder (DAE)				X			X	X						
Echo State Network (ESN)			X		X					X			X	
Extreme Learning Machine (ELM)				X	X					X				
Feedforward (FF)				X	X					X				
Generative Adversarial Network (GAN)	X			X			X							
Hopfield Network	X													
Kohonen Network (KN)				X	X									
Liquid State Machine (LSM)					X					X				X
Long/Short Term Memory (LSTM)			X		X					X	X			
Markov Chain (MC)										X				
Neural Turing Machine (NTM)				X	X		X			X				
Perceptron (P)					X					X				
Radial Basis Forward (RBF)				X	X					X				
Recurrent Neural Networks (RNNs)			X		X					X			X	
Restricted Boltzmann Machine (RBM)					X					X				
Sparse AutoEncoder (SAE)				X	X		X							
Support Machine Vector (SVM)				X	X					X				
Variational AutoEncoder (VAE)					X		X			X				



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