

	Description	Example usage
ted	Each neuron connects to each output in preceding layer. Also known as projection layer if no activation function is used.	Cases where specialized layers do not provide additional value
al	Sparsely connected. Employs weight sharing. Consists of multiple channels. Each channel is often arranged in two dimensions.	Image processing (2D convolution) and text processing (1D convolution)
rent	Recurrent connections. Output from previous timestep is used as input. Weight sharing between timesteps.	Sequential data of variable length, e.g., text processing
erm TM)	Recurrent layer with more complex units. Each unit contains an internal memory cell. Gates control when to remember and forget.	Long sequences, e.g., text processing
rent	Simplified version of LSTM. No internal memory cell but still has gates to control when to remember or forget previous output value.	Long sequences, e.g., text processing
	Converts sparse one-hot encoded data into a dense representation. Implemented as lookup table.	Convert textual input data into word embeddings
	Output vector is a weighted sum of multiple input vectors. The weights are dynamically chosen to attend to the most important vector.	Extract information from long text sequences or images