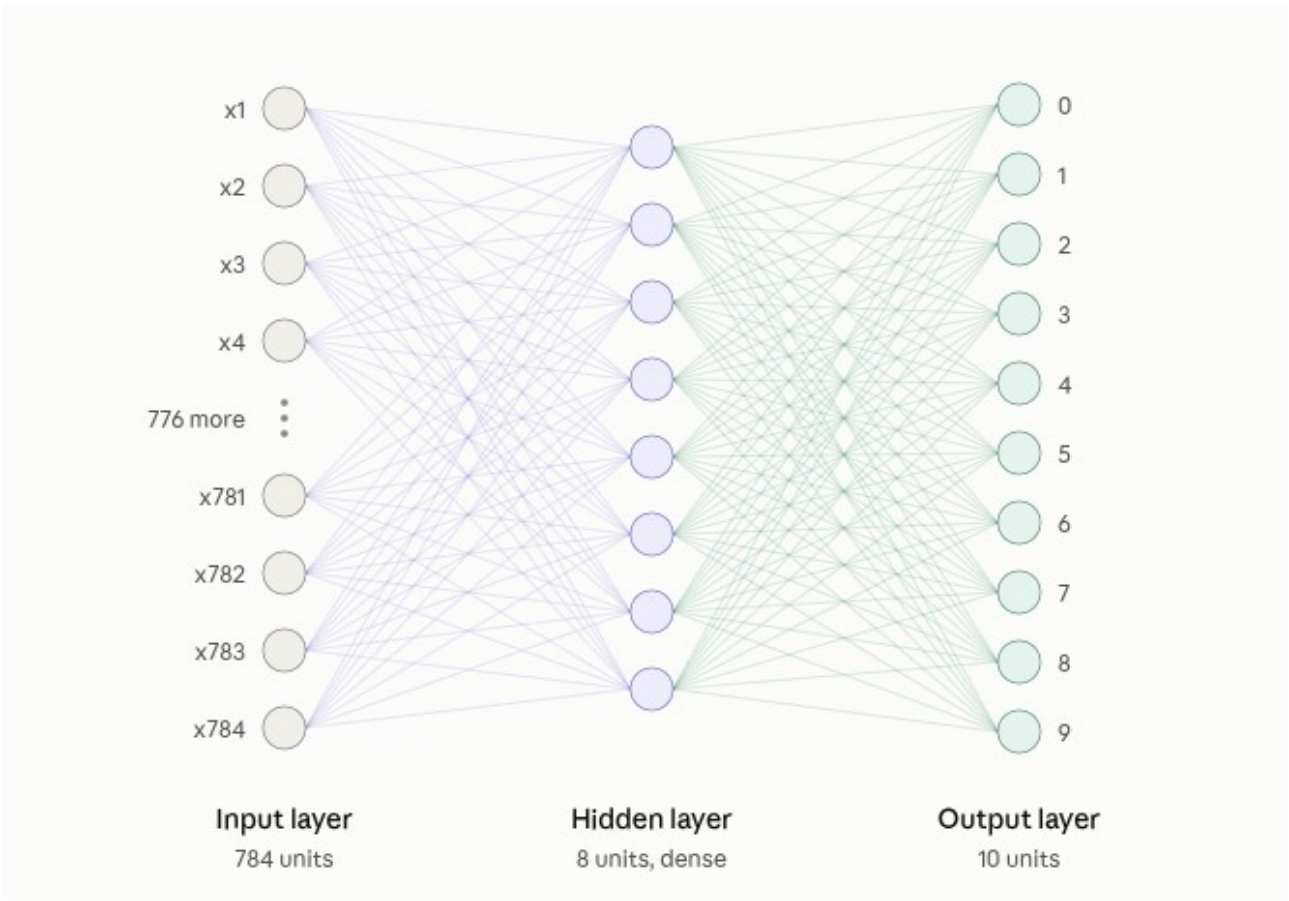


mnist_dense1

Layer (type)	Output Shape	Param #
dense (Dense)	(None, 8)	6,280
dense_1 (Dense)	(None, 10)	90

Total params: 6,370 (24.88 KB)

Trainable params: 6,370 (24.88 KB)

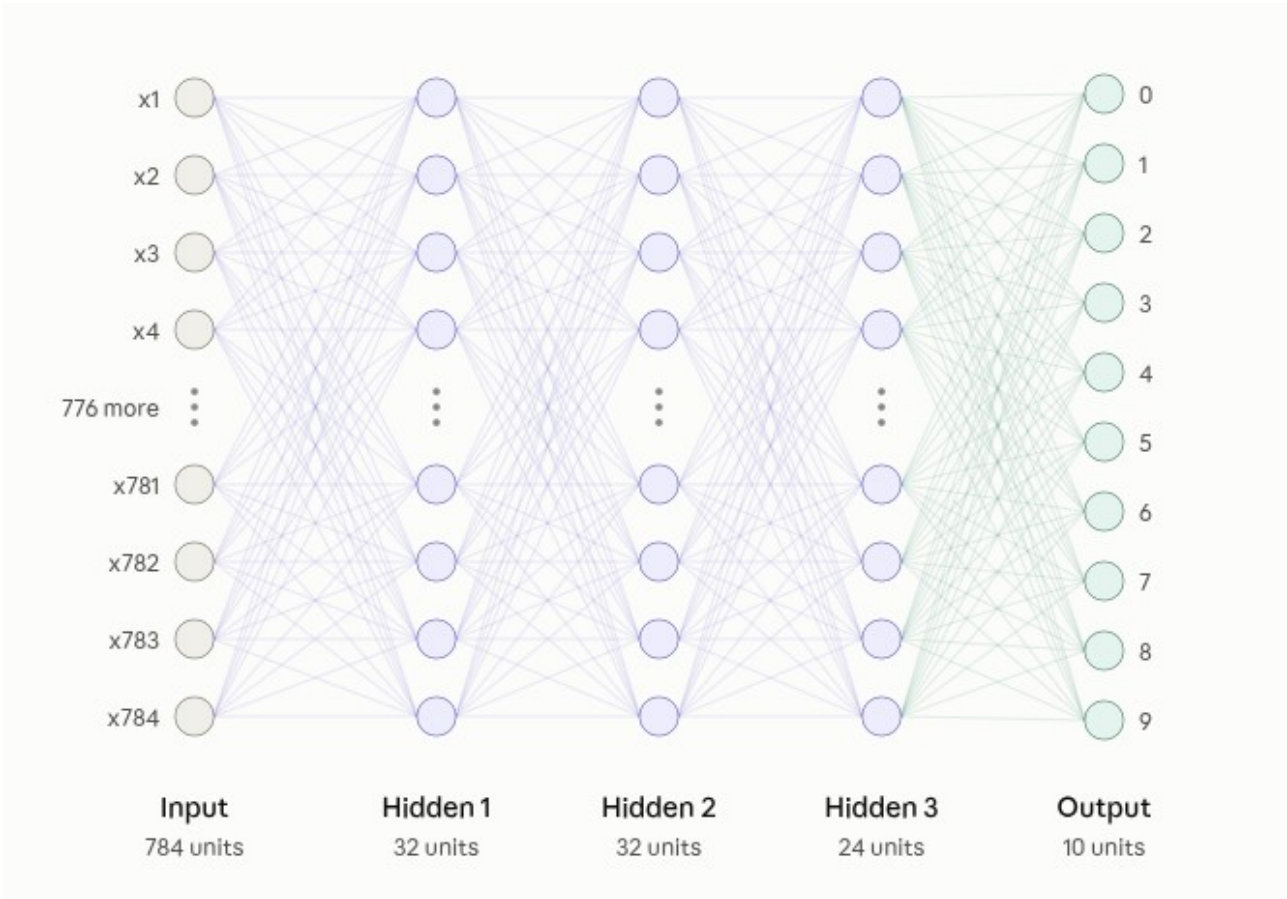


mnist_dense2

Layer (type)	Output Shape	Param #
dense_2 (Dense)	(None, 32)	25,120
dense_3 (Dense)	(None, 32)	1,056
dense_4 (Dense)	(None, 24)	792
dense_5 (Dense)	(None, 10)	250

Total params: 27,218 (106.32 KB)

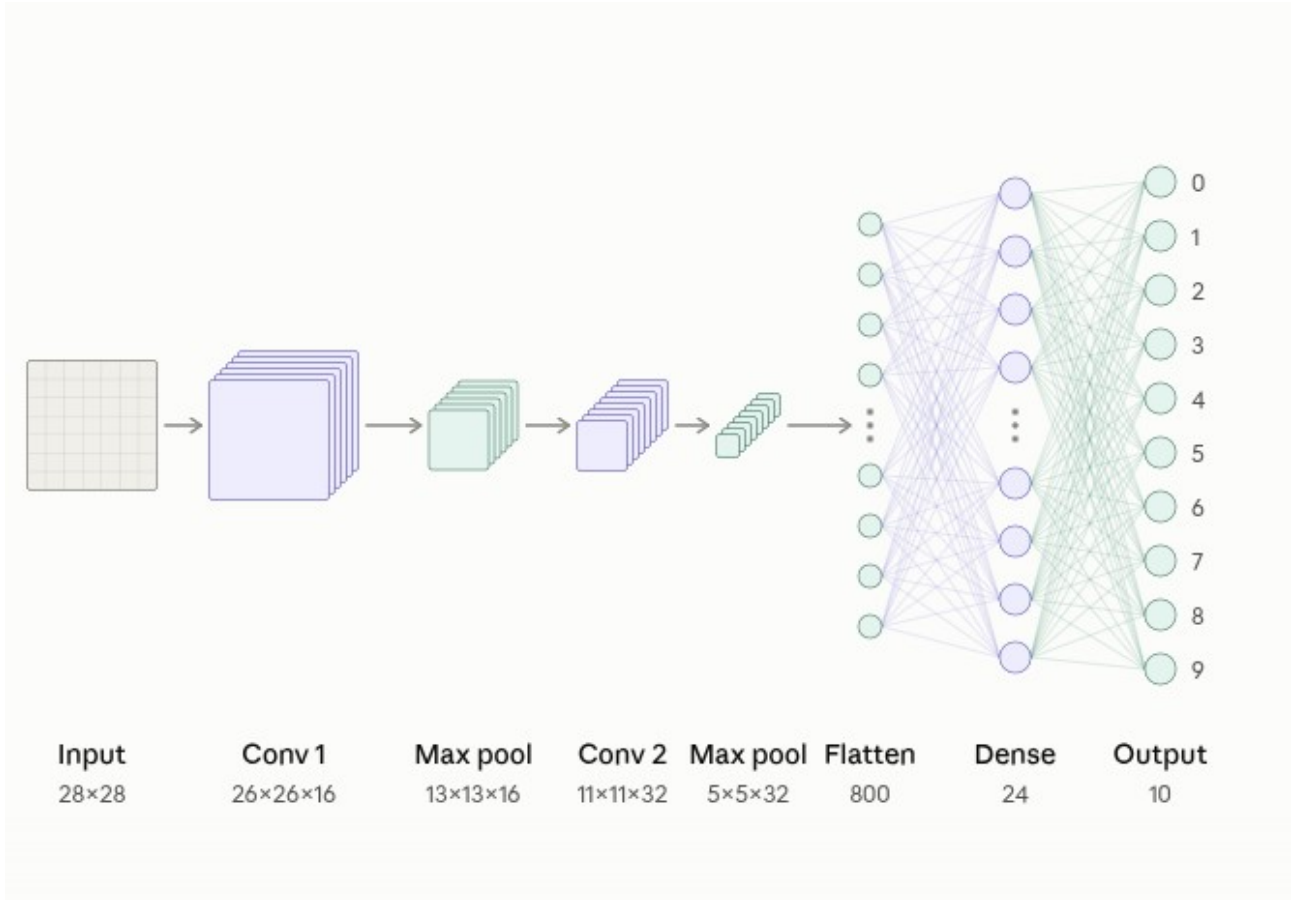
Trainable params: 27,218 (106.32 KB)



mnist_cnn1

Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 26, 26, 16)	160
max_pooling2d (MaxPooling2D)	(None, 13, 13, 16)	0
conv2d_1 (Conv2D)	(None, 11, 11, 32)	4,640
max_pooling2d_1 (MaxPooling2D)	(None, 5, 5, 32)	0
flatten (Flatten)	(None, 800)	0
dense_6 (Dense)	(None, 24)	19,224
dense_7 (Dense)	(None, 10)	250

Total params: 24,274 (94.82 KB)



mnist_cnn2

Layer (type)	Output Shape	Param #
random_rotation (RandomRotation)	(None, 28, 28, 1)	0
random_translation (RandomTranslation)	(None, 28, 28, 1)	0
random_zoom (RandomZoom)	(None, 28, 28, 1)	0
conv2d_2 (Conv2D)	(None, 28, 28, 32)	288
batch_normalization (BatchNormalization)	(None, 28, 28, 32)	128
activation (Activation)	(None, 28, 28, 32)	0
conv2d_3 (Conv2D)	(None, 28, 28, 32)	9,216
batch_normalization_1 (BatchNormalization)	(None, 28, 28, 32)	128
activation_1 (Activation)	(None, 28, 28, 32)	0
max_pooling2d_2 (MaxPooling2D)	(None, 14, 14, 32)	0
dropout (Dropout)	(None, 14, 14, 32)	0
conv2d_4 (Conv2D)	(None, 14, 14, 64)	18,432
batch_normalization_2 (BatchNormalization)	(None, 14, 14, 64)	256
activation_2 (Activation)	(None, 14, 14, 64)	0
conv2d_5 (Conv2D)	(None, 14, 14, 64)	36,864
batch_normalization_3 (BatchNormalization)	(None, 14, 14, 64)	256
activation_3 (Activation)	(None, 14, 14, 64)	0
max_pooling2d_3 (MaxPooling2D)	(None, 7, 7, 64)	0
dropout_1 (Dropout)	(None, 7, 7, 64)	0
conv2d_6 (Conv2D)	(None, 7, 7, 128)	73,728
batch_normalization_4 (BatchNormalization)	(None, 7, 7, 128)	512
activation_4 (Activation)	(None, 7, 7, 128)	0
max_pooling2d_4 (MaxPooling2D)	(None, 3, 3, 128)	0
dropout_2 (Dropout)	(None, 3, 3, 128)	0
flatten_1 (Flatten)	(None, 1152)	0
dense_8 (Dense)	(None, 256)	294,912
batch_normalization_5 (BatchNormalization)	(None, 256)	1,024
activation_5 (Activation)	(None, 256)	0
dropout_3 (Dropout)	(None, 256)	0
dense_9 (Dense)	(None, 10)	2,570

Total params: 438,314 (1.67 MB)

Trainable params: 437,162 (1.67 MB)