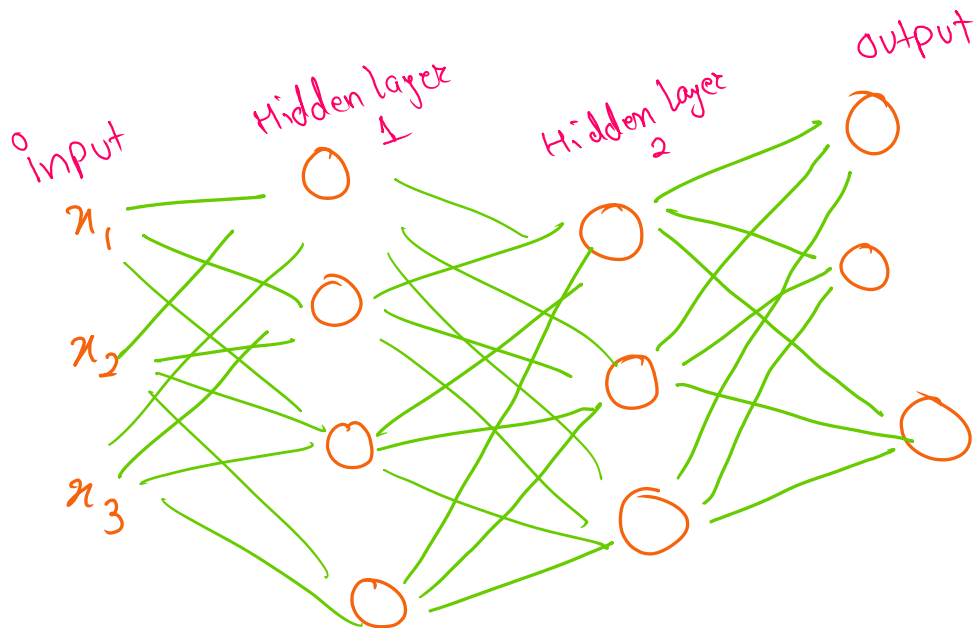


Activation function

$$y = f(\vec{x} \vec{w})$$

output



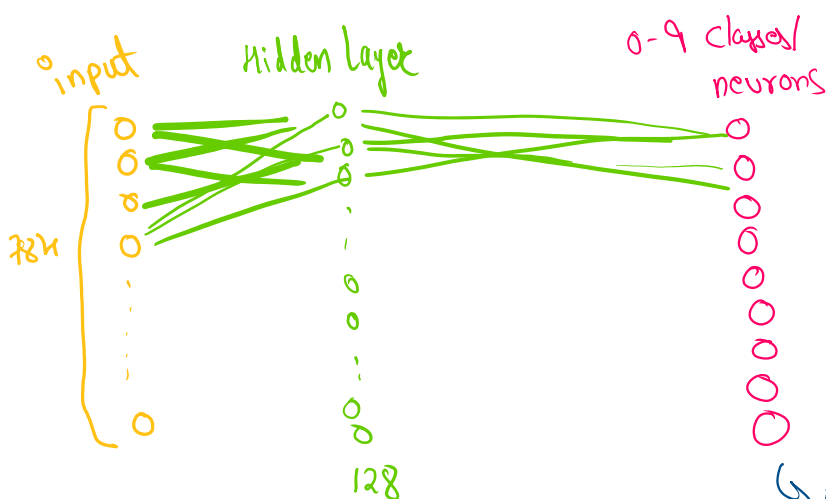
→ mnist Dataset (fashion/clothing)

data is in a form of (28×28)

$$\begin{bmatrix} [0.1, 0.2, \dots \times 28], \\ \vdots \\ \times 28 \\ [0.3, 0.4, \dots \times 28] \end{bmatrix}$$

this cant of data can't be used as it is to the neuron.

∴ we will flatten the data
 $(28 \times 28) \rightarrow [784]$



In the case of a 28×28 grayscale image, there would be $28 \times 28 = 784$ neurons in the input layer. Each neuron would receive the pixel intensity value of a corresponding pixel in the image as its input.

↳ each class denotes a type of clothing apparel

Passing the entire image through a single neuron would lose spatial information and wouldn't effectively capture

for test-ing with the highest %

Passing the entire image through a single neuron would lose spatial information and wouldn't effectively capture the complex patterns present in the image. Instead, neural networks use multiple layers of neurons, each layer learning different features of the input data, to extract relevant information and make predictions.

For test-ing with the highest %
with some particular class is
likely the clothing.