

9/14/22

Wednesday, September 14, 2022 5:40 PM

How to use a Neural Network

① Acquire the data

Input (vector)

Thing you are trying to learn (output)

Schematically pair these up as

Input — Output pairs

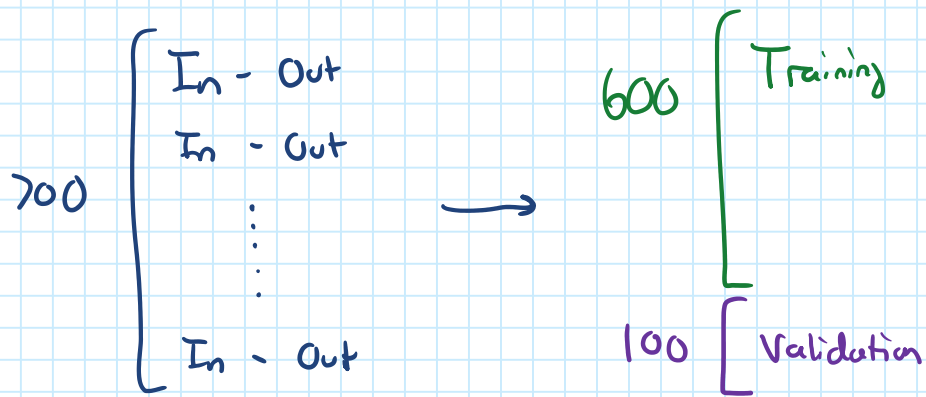
↑
Multi-Component
object

↑
For us, a single number: M_T

$$\text{In: } \underbrace{[I, P_x, P_y, P_z]}_{\text{Pair}} \rightarrow M_T$$

② Split our In-Out pairs into training and testing sets

"Validation"



③ Initialize the NN.

- Determine the topology of your NN

Layers, nodes, input length

④ Train

⑤ Validating