## **What are Neural Networks**

Quhat are Newal Networke? A neural network is a network or clumb of numers, on en a modum sense, an antificial network, comprased of antificial numers over noells. Thui a neural network is either a bological neural network, made up of real biological neurone, or an arrifial neural network, for follogical  $A \perp problems$ . The connections of the biological neumon and modeled as weight. A tre weight reflects are excitatory connection, while negative rature with mean inhibitory connections. All inputs are modified by a weight and Summed. This activity is referred to as linear convination. Junition controls the

ad linear combination Einally, an activation Junction controls the amplitude of the output. Evereg: an cuceptable reange of O/P is usually. If wo & I, or it could be - I and I. Representation IP -> Numerical -> Leavente
verpresentation
oncoding (patterne/ outputa Jeasured / outputs weighte) \* Anatomy of Newal Networks: output layer (outpused on on prediction on prediction prediction prediction prediction) - Coutherth leavened Ap layer Colata goes in here) # units/newword=1 # unite/newrond = 2 Hidden layer (s) ( (ovend pattering in data) \* units/newword = 5

