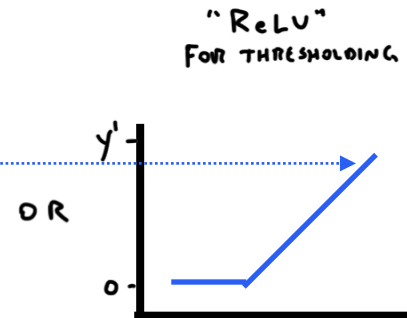
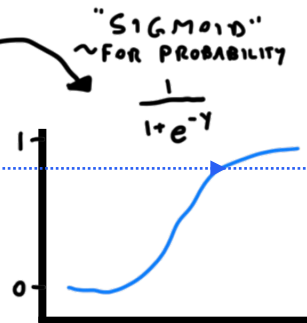
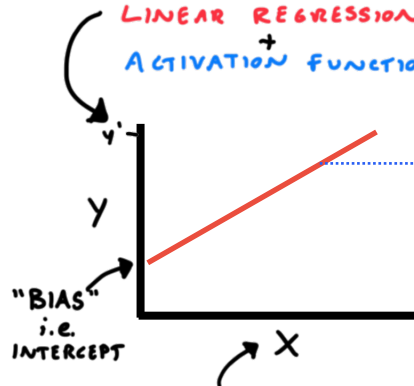


NEURAL NETWORK

THE FUNDAMENTAL UNIT
OF A NEURAL NETWORK IS THE

NEURON

WHICH IS ESSENTIALLY
LINEAR REGRESSION
+
ACTIVATION FUNCTION

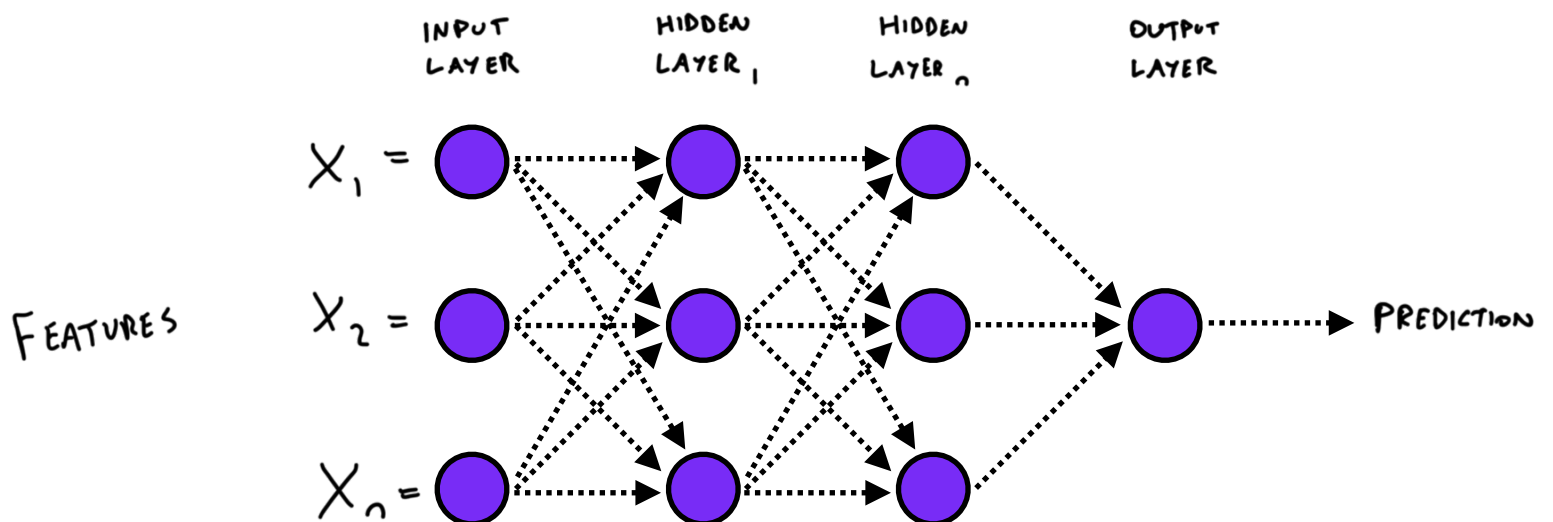


ETC...

LINEAR, "WEIGHTED" i.e. COEFFICIENTS
COMBINATION OF
INPUTS

eg. $\beta_1 x_1 + \beta_2 x_2 + \dots + \beta_n x_n$

NEURAL NETWORK ARCHITECTURES
ARE TYPICALLY RENDERED LIKE:



WEIGHTS CAN BE TUNED
VIA "BACKPROGATION" +
GRADIENT DESCENT