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Machine learning Lab-08 - Observation

Activation functions

To implement Various activation functions to the PIMA indian diabetes! dataset in MIP

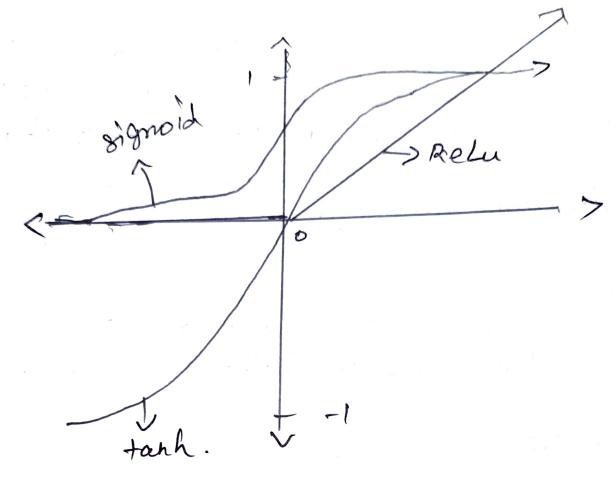
Faplanation

There are various activation functions for the percentrons. These onsure differentiability and hence allow including ettra layers. Some of the popular functions are: 1) Sigmond

f(x) = 1 this gives output in the 1+e-x range of [0,1].

It is mainly used in models where we predict probability.

il) Tank activation function This resembles very close to sigmoid, but has a harge of [-1,1].



iii) Relu [rectified linear unit]

A is one of the most used activation function R(x) = max(0, x) It has a range

of $[0,\infty)$