Sun Laper

O class-impealance accuracy because some patterns reasite more data samples b) Resampling, up-sampling, down-sampling, synthetic data samples

$$\frac{dL}{dh_1} = \frac{dL}{dk} = \frac{dd}{dh_1} = \frac{dL}{dk} = \frac{dL}{dh} = \frac{dL}{dh_1} = \frac{dL}{$$

$$\frac{dL}{dln} = \frac{dL}{dt} = \frac{db}{dln} = \frac{dL}{dt}$$

3). graph

$$y^{2} \frac{1}{1+e^{2}h}$$

$$X \Rightarrow h^{2}2X+1 \Rightarrow y^{2} \frac{1}{1+e^{2}h} \Rightarrow y$$

$$X=D \quad z=X^{2} \Rightarrow z$$

$$\partial \frac{dy}{dt}$$
 = DNe because y is not a function of z

3) The Math =
$$y = \frac{1}{1+e^{-t}} = \frac{dy}{dt} = \frac{e^{-x}}{(1+e^{-t})^2}$$

@ darsification using NN

Net 1

Bhay crossentyloss = Output buyer has only one unit - sigmoidal

MAL

choss enthogy loss:-Net 2 out put has k output writs for k-classes - softmax function

Tyes, Me is scale-sensitive. This means that the variability of each target relative to others can effect net learn

5 now, use a normalization