\* Emperical Risk Minimization

A 10E of ML algorithms involve Minimization of a Junction Over parameters we such that it bentains two Companents: 1055 Junition and regulation

loss Junction is a continuous Junction which pendites
theiring effort, while regularitet pendites model
complexity. I is a Junction of parameters & data
points, while regulariter is Junction of Any parameters

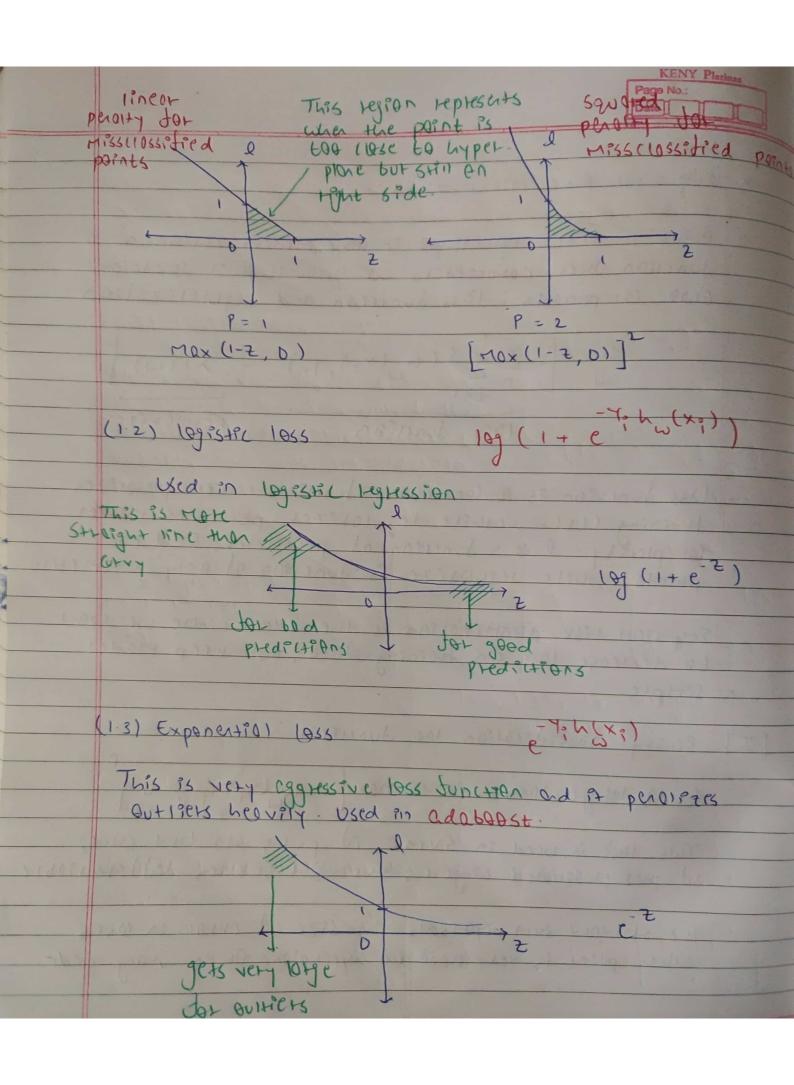
Empericol tisk minimitation is the idea where we wont to decreose 1865 on training data, but keep model simple.

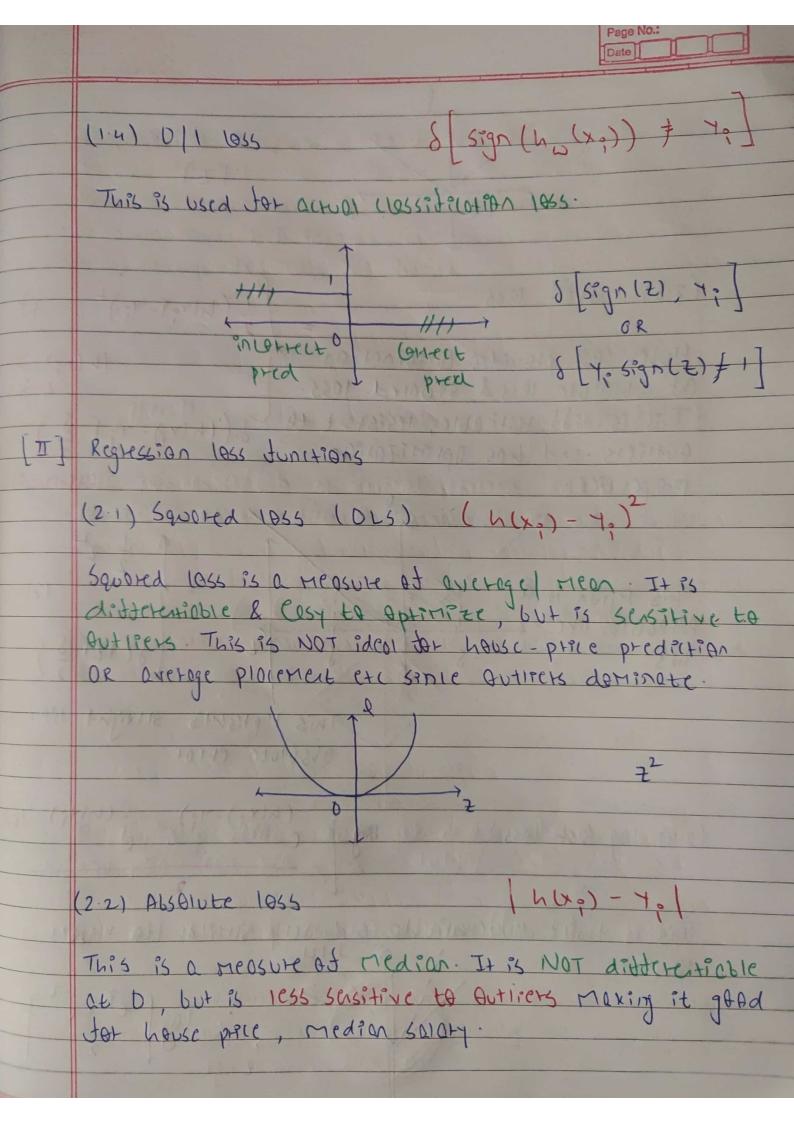
[I] Bindry (1055: dicotion 1855 Junition

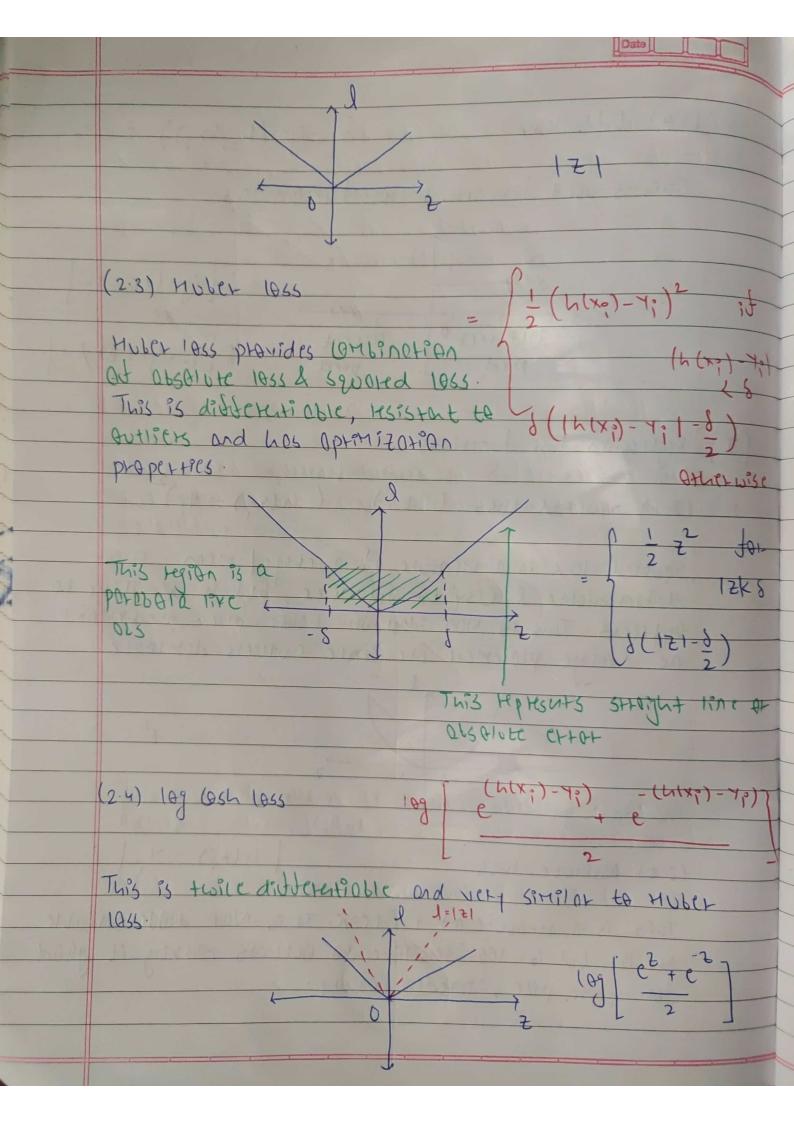
(1.1) Hinge 1865 max [1- h/x.) 4, 0]

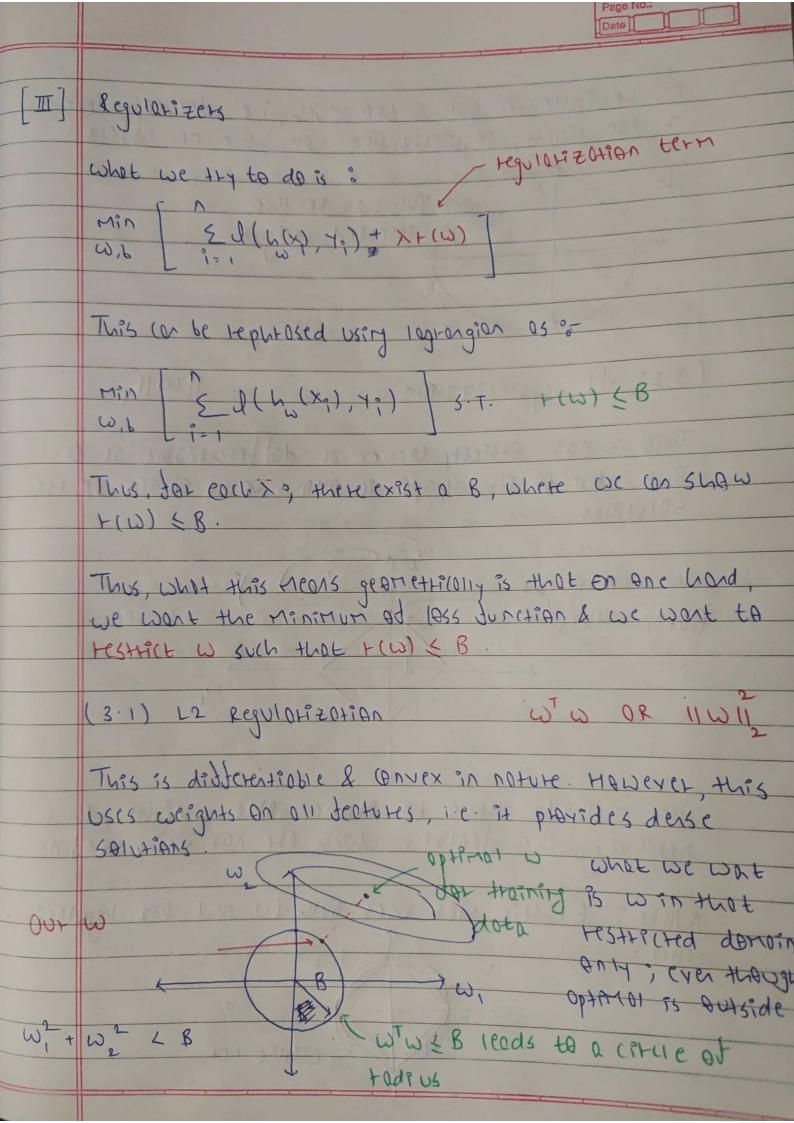
This loss is used in syms, if p=1; standard sym, et p=2; squared hingeless sym and belomes distrementable

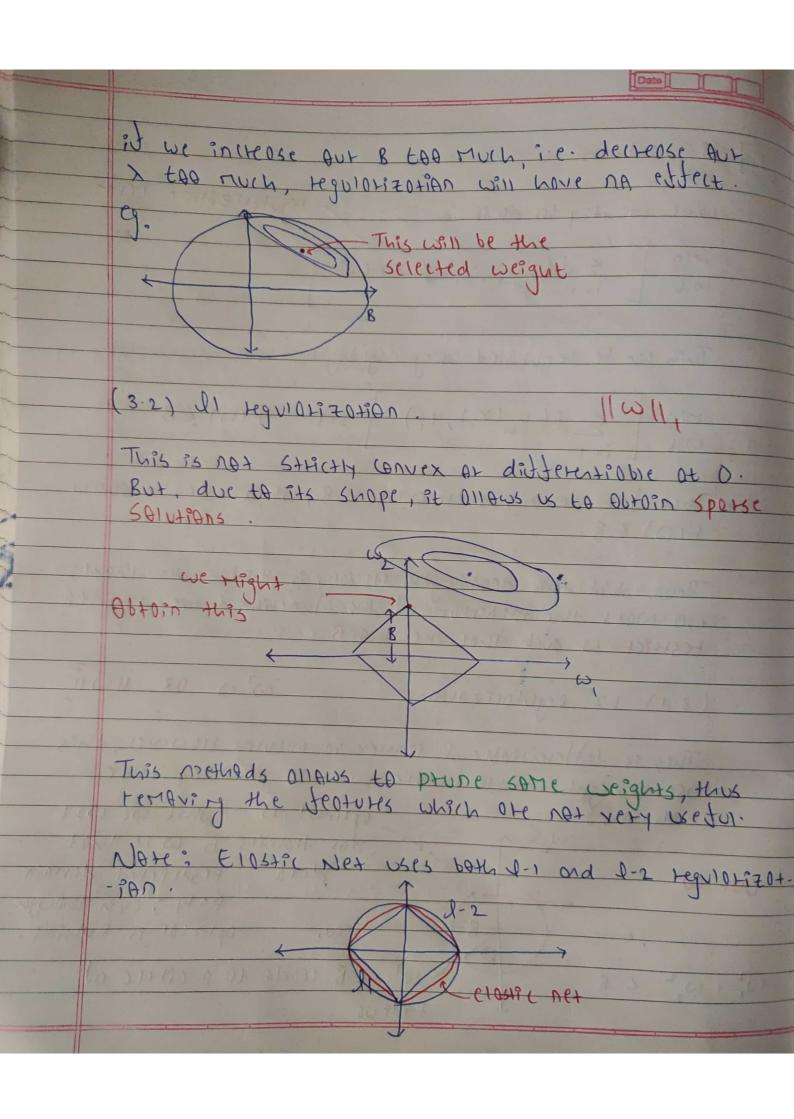
The stondard sum tepresents the size of error in loses when point is very near to hyperplane or on wrong side



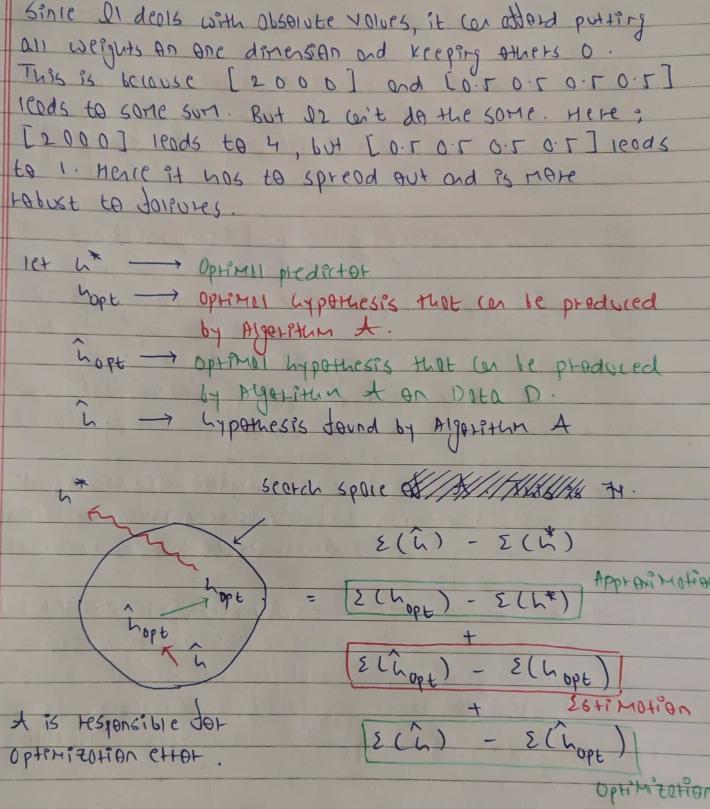








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- E(hopt)
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- E(hop))
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These are the 3 things where we provide knowlede. For eq. Bias.

data NOTE: JAIMULA

+ ML = thodo dota + thoda knowledge 9. DL 15 605+ JOH NOVA

> laakup 2 & Mewiedge.