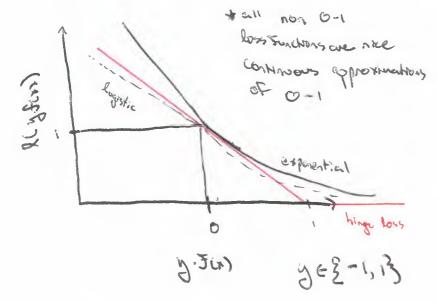
o Finis a signed "Scare Function" and
y's class label. Thus we want
loss Functions which penalize in lot
For very regarise workes of yofix)

· 0-1 (minimizes misclassification rede but
not differentiable out origin and
hers no gradient)
classification losses



· exponential (nice theorether) properties,
but invenues exponentially

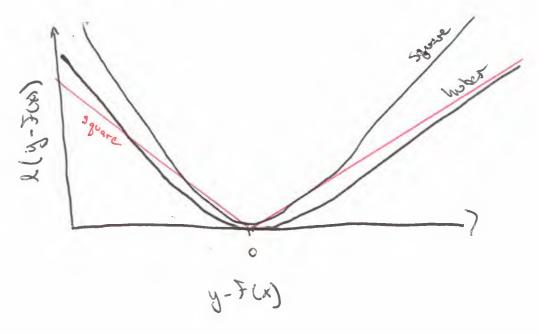
50 is sonsitive to outlies;
intege (sum loss)

· logistic (logistic regressor loss)

a squire Contrate at angle, gradient islaws down at origin which is helpful to gradient decort, but is sensitive to outliers since it increase grandations.

o absolute (less sensitive to authors since it increase linerly but, not differentiable aut another, and large grandient at anything.

regression losses



I more hyperparameter, S, to take).

Some	nice theore	Hearl 305tiFication	ens For ve	oreg de ad	l. lo	~ ·	
ā	the optimal	prediction 30	meen: 3	ing square	loss X:x7	results in	predicting For each
0 = 3	ELLY-S)2/X] =] d	g(y-g)2 P(ylx) dy =>	9 = 100	Cylindry = Ely	UXJ
2>	for each x ₃	- using destry	ected loss for the production:	thus the mean	3) X	
٠	the options	ditional median	nethon using	absolute los	s results	, in prodict	·1 reg
0=	OF ECIT	·3/1x] = 3	南山水	glasch + gd	ig ly-g) PlyIX) ely	

The cylx) dy = Prylx) dy => the only place this happens is at

the median => ys = med (Prylx))

The median is

the median and those estmost