loss function: includate the difference between output and real value: 1" Difference between Y.V. 1et Y:30, Y:30, Z:1:1, Z:Y:=1 let Ur log Y; , V = log Y; , interlito u; - V; = log Y. Ext lug \(\frac{1}{41}\) = \(\frac{1}{2}\) \(\frac{1}{1}\) \(\lambda\) divergence Since \(\frac{\name{Y}}{\name{Y}}\), \(\log\frac{\name{Y}}{\name{Y}}\), \(=-\frac{\name{X}}{\name{Y}}\), \(\log\frac{\name{Y}}{\name{Y}}\) Luy - Wn cave 1 - Wn = Y; Y; = + D KL- Pivergence 70, can be his function KL-P = Z Yi log Y: = Z Y; log Y: - Z Y; log Y: = Ex. (by) - Ex. [lug Y:] EY: LLMYN 4-Lug = Y: Y: = 0 Fur Kt-D 70 - Z Y: Ly Y: 7 V => Lyoss entropy luss function related to w clusely. application: 12 moter difference between z distribution 1 with enways: H= - \ P(xi) logpan) = - Ep-(logpi) DKI KP 1194) = Z pix;) [lypix;) - lyggir;)
= Fp: [loypix] = Ep:[lyggir] 1