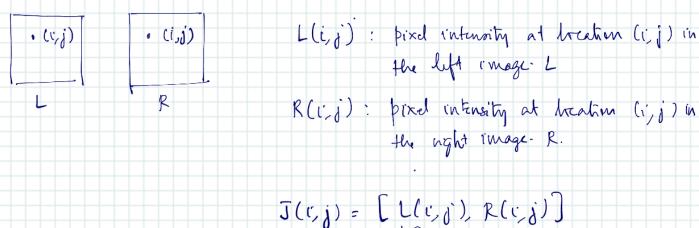
Per learning 29 8 23 · Recap · Cross Entropy o HW discurrious V · Project disussion · Recup: · H(x) = -Ex lyge px(2) (Entropy) o H(x, Y) = - Exy log 2 pxy (x, y) (drint Ent) o H(Y(x) = - Exy log\_2 |y|x (y|a) Conditional) · H(x,y) = H(x) + H(y|x) (Joint) o  $D(p||q) = \sum_{\alpha} p(\alpha) \cdot d_{\alpha} \frac{p(\alpha)}{q(\alpha)}$  (KL divergence) : D(p||q) > 0o H(p,q) = H(p) + D(p)(q) Entropy Extra bits
of the right to represent p
grand when we observe
touth as a may of p.  $=-\frac{\sum p(n) \log p(n)}{+} \frac{\sum p(a) \log \frac{p(a)}{q(a)}}$ = - 2 p(n) lightn) + 2 p(n) lig p(n) - 2 p(n) lig q(n)  $|H(p,q)| = - \sum p(x) \log q(x) - 0$ Binary cross entropy: p(0) = p : p(1) = (Lp) 9(1) = 9; 9(1) = (1-p) find the expression for BCE: H(p, y) = - [ p log q + (tp) log (1-q)]



Frequency

Pregramy

Ohr gives us the normalized MXN histogram

Image dim.

Of 2st Intensity.

(Unint histogram) 1250 (2,2)

Histogram of L