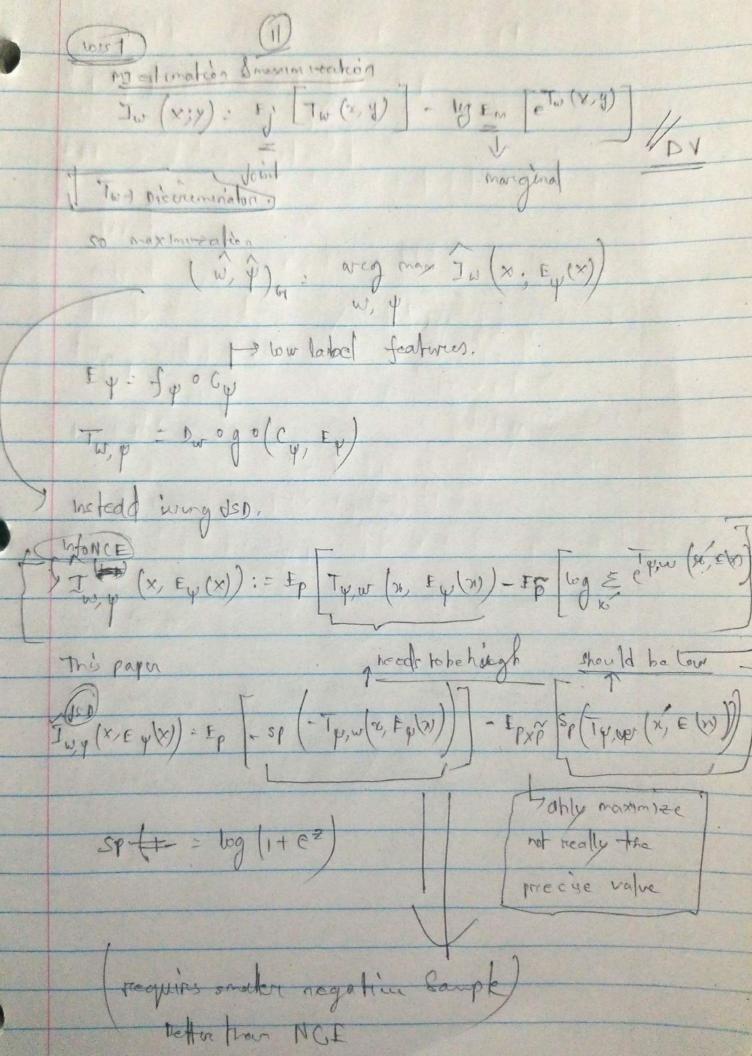
(Deep Informand: contractive Solup! vector input 20 output y family of encoder: Ey = { Eyy} y = Y

U, , distribution over encoding.

for input X. Toriget: YNE (x) 1 maximize: I(x, Ey(x)) (MJ) 1 constraint: Up, p match V Hosther proon distribution (infomax) 1 Figure (3) mother of all it Iglobal vs beal So, positive & Negative Samples!



Local mt maximization feature may

Cyly: {Cyly}: {Cyly}: E q (x) = fq 0 (4 (v) $(\hat{\omega}, \hat{\psi})_{L} = \text{weg more} \frac{1}{m^2} \underbrace{\tilde{\Sigma}}_{i=1}^m \hat{T}_{i,\psi} \left(c_{\psi}^{(i)}(x); f_{\psi}(x) \right)$ matching respecientated, with propore (w, w) = areg men areg max D (VII U). = FV [wg Dd (4)] + Ep [wd (1- od (Ed(m))) Adversarical Auto encoder. final losse neighbod sum of the provious three.