Lahry Dulanjara Chaman Hera Chamage 915519699 nier 4; € 20,131=1...n. g: 12 → 2913 True risk P(g) = E(Y, g(x)) $= E_{X}[E(Y, g(x)|X]]$ 9 = org mon 6 x [Eyxx [1 } 7 7 9 0x) 3 [x] This is Bayes rule. 2. hca) = 1 2 mj > 0 9 empirical risu = Rcy) = 1 52641, 90%) $=\frac{1}{n} \leq \ell(q_i, h(n_i))$ $=\frac{1}{n} \leq \ell(q_i, h(n_i))$ $=\frac{1}{n} \leq \ell(q_i, h(n_i))$ when h(n';) = 13 n; >0 \$

tit: re can calculate in Selly, monts) for each j. loss can be hamming loss.

J = org mm 3 / El(yi, h(ni)) 20 ×1, 14 ms predict : for py=1 1+ P3 | Rncg) - Rcg) > t 9 = 2e let gaton P210. 12 Ruig) - Rigi) > 63 & 20 9 pr3 - + & Prog) - Right & 7 21-22 Pr (2ncg) + 194) 2 Pr 3-6= Pring) - Prigo S+3 21-22 -0 =02M Pr(Pncg)-Reg)=0-1321-22 Pr(Rn(g) < Rmg)+0.1 } = 1-2 2 = 0.95 2) 18 4 Sampled /

H is idempotent. LENN hon hope it die NR (29) hare and bii= CO SAMERINA. 9 = HUE)4 / 27 sample depent use its own point H (K-1) = H(CK) - Innh 0) Hord (k) = H(k+1) - Inxn/ 3. corss validation error = 1 2 (4e-

(resiprocals U errolo Sit: take SUD of X = U3D, V tave u as the first p column of u. Pt 15 he reepprocerted dregoul of D. pre dret. Unt = munt B chargerank (V, D, Y. return Am