Adam Daniel Condition 1! no offset R11679961 (1 + 2 3 4 + 1x, W= (3 0) x= 3 => 3.3=9>0 condition 2: affect does not cause it to be reserve W= [ ] W= I 2(2) +1(1)-9=-460 offsel makes it negative 2(2)+|(1)+1=670 offset does not cause this to be negative L. One disadvantase of Batch perception over online perception is having to so through all of the samples before chansing your it adds up all of the misclusified feature vectors, you require a smaller learning rate.  $J(w) = \sum_{\text{misclay, f. ed}} w^2 x^2$  $W(k+1) = W(k) + P \sum_{\text{mischesified}} \frac{2wx^2}{x}$  $\nabla J(w) = \sum_{\text{miscluss first}} \chi^2$ 4 9. 1. (3=2(v)+(-1)-(2)+3=2 b. d, >dy => d3-d4 >0 d(x)=-(1)-(-1)+2(2)+1=5 X2+2-(-x2+2x3+2) 0 (4) = 112=1 2x2-2x370 dy(x)=-(-1)+2(2)+2=7 30 trains date dy > d2 >d, >d3 X\* EC4 4 samples ascal in training