Ex: Perceptron 0000 Binary classifier $\overline{W}^T f(\overline{x}) \stackrel{?}{>} 0$ movie good +1 1100 by $f(\overline{x}) \stackrel{?}{=} 0$ movie bad -1 1010 not good -1 0101 1100 Yered=-1 01-10 Ypren=+1 00-1-1 Yprex=+1 tor + up to epochs: ep2 movie good +1 1100 11-1-1 Y pred =1 for i up to D: $y_{pred} \in \nabla^T f(x^{(i)}) \stackrel{?}{>} 0$ wew if ypred = y (i) else We W+xf(x(i)) if y(i)=+1 else we was $(\overline{x}^{(i)})$ if $y^{(i)} = -1$ Ex 2 good +1 10000 Not separable had -1 01000 not good -1 101 10 Ly Add bigrams