1) eep learning Binary Classification Problems: \_\_\_\_\_y label 0 or 1 (output label) 1621 64 ×64 · 64x64x3=12288 12288 notation: assuming m training examples, & (1), Y(1), (x(2), Y(2)), ..., (x(m), Y(m)) m = # test examples = no. of test examples  $X = \begin{bmatrix} X_{(1)} & X_{(2)} & X_{(m)} \\ X_{(1)} & X_{(2)} & X_{(m)} \end{bmatrix}$   $X = \begin{bmatrix} X_{(1)} & X_{(2)} & X_{(m)} \\ X_{(2)} & X_{(m)} & X_{(m)} \end{bmatrix}$ Similarly Logis tic Regression: -> learning algorithm used when output labels (Y), in a supervised learning publism, are either 0 or 1 [lefor Bin. Class Probe] (riven x, want g = p(y=1 |x) x E Rnx s: w ERnx, b ER