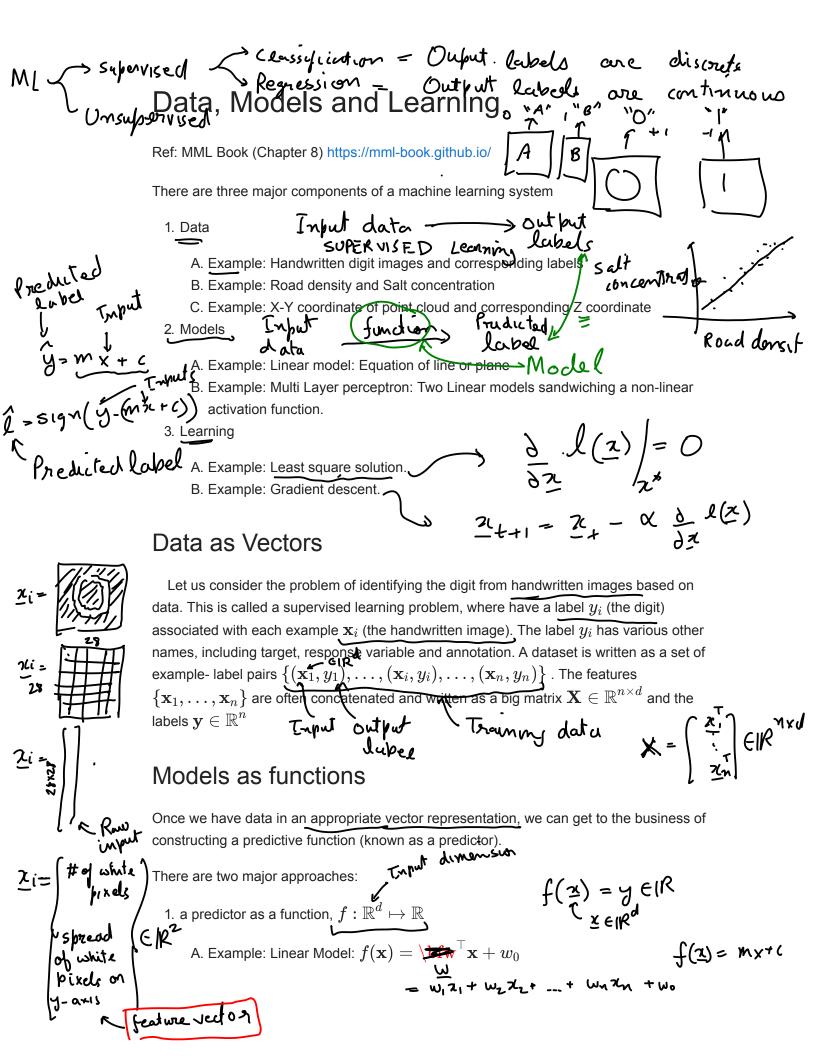
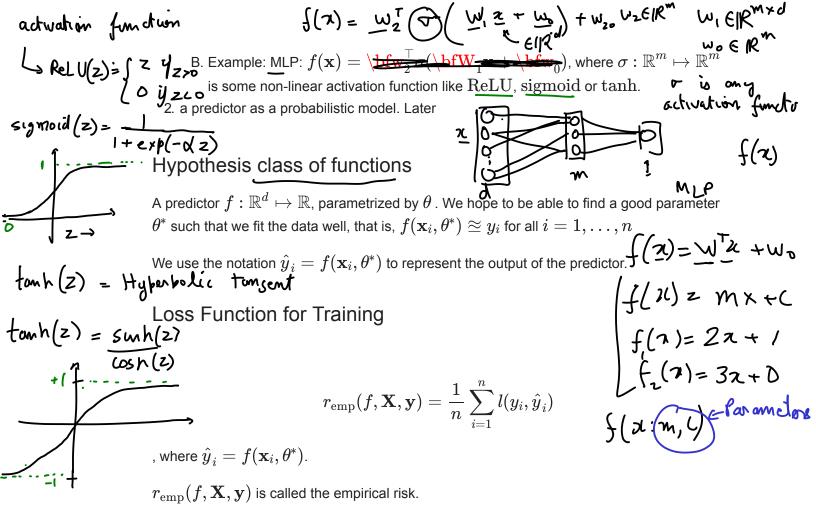
$$f(g_{1}, \underline{b}) = \frac{1}{1 + e^{\gamma}p(-g^{T}\underline{b})} \qquad \begin{array}{l} \underline{a} \in IR^{n} \\ \underline{b} \in IR^{n} \\ \underline{b} \in IR^{n} \\ \frac{d}{d} = \\ \frac{d}{dg} = \\ \frac{d}{dg} \\ \frac{d}$$





Homework 5

$$MLP = \int (2) = \frac{1}{2} \frac{1}{2} \frac{1}{2} \left( \frac{1}{2} \frac{1}{2} + \frac{1}{2} \frac{1}{2} \frac{1}{2} \left( \frac{1}{2} \frac{1}{2} \frac{1}{2} + \frac{1}{2} \frac{1}{2} + \frac{1}{2} \frac{1}{2} + \frac{1}{2} \frac{1}{2}$$

() Data 
$$\{(2i, y_i), ..., (2n, y_n)\}$$
  
() Data  $\{(2i, y_i), ..., (2n, y_n)\}$   
() Model:  
() Lean ning  
() Scathered Descent  
Ls Loss function  
Model:  $f(2; 0)$   
()  $\hat{y}_i = f(x_i; 0)$   
()  $\hat{y}_i = m\pi(i + 1)$   
()  $\hat{y}_i \approx y_i$   
()  $\hat{y}_i = (y_i - \hat{y}_i)^2 (y_i - (n\pi(i + 1))^2)$   
()  $\hat{y}_i = f(x_i; w) = (y_i - \hat{y}_i)^2 (y_i - (n\pi(i + 1))^2)$   
()  $\hat{y}_i \in f - 1, + iS$   
()  $\hat{y}_i \in f - 1, + iS$   
()  $\hat{y}_i = \hat{y}_i$   
()  $\hat{y}_i = \hat{y}_i$   
()  $\hat{y}_i = \hat{y}_i$   
()  $\hat{y}_i = \hat{y}_i$   
()  $\hat{y}_i = \hat{y}_i$ 

The learning problem in general is formulated as on optimization problem  $0^* = \operatorname{argmin}_{emp} (f, \{(\underline{2}_1, \underline{y}_1), \dots, \underline{0}\})$ (x, y)being being  $\frac{\eta_{emp}\left(f...\right)}{n} = \frac{1}{n} \sum_{i=1}^{n} l(y_i, \hat{y}_i)$ identially independently distributed. (. l. i. j.)