Linear Regulion in multivariable Size (feet2) | # backrooms | # floors | Age Raice (\$1000) 460 2104 30 232 1416 1537 315. 36 | 852 178 this data (training st) les 4 features $\chi^{(1)}_{i}$ = unput (features) of the training example $\chi^{(2)}_{i}$ = value of feature f in i training

example. $\chi^{(2)}_{i}$ = $\begin{cases} 1416 \\ 3 \\ 40 \end{cases} \in \mathbb{R}^{4}$ $\chi^{(2)}_{i}$ = $\begin{cases} 1416 \\ 3 \\ 40 \end{cases} \in \mathbb{R}^{4}$ $\chi^{(2)}_{i}$ = $\begin{cases} 1416 \\ 3 \\ 40 \end{cases} \in \mathbb{R}^{4}$ $\chi^{(2)}_{i}$ = $\begin{cases} 1416 \\ 3 \\ 40 \end{cases} \in \mathbb{R}^{4}$ (n) = 0, +0, n, +0, n, +0, n, +0, n, +0, n, +0, n, Ase (a) ho(n) = 80+0.1n, +0.01 n, +3 n, -2 n, 4 ho(n) = Do + O, n, + - + Onna (where, no=1) $\chi = \begin{cases} \chi_0 \\ \chi_1 \end{cases} \Rightarrow R^{n+1} \theta = \begin{cases} \theta_0 \\ \theta_1 \end{cases} \Rightarrow R^{n+1}$ $\chi_0 = \begin{cases} \chi_0 \\ \chi_1 \end{cases} \Rightarrow R^{n+1} \begin{cases} \eta_0 = 1 \\ 0 \end{cases} \Rightarrow R^{n+1}$ $\chi_0 = \begin{cases} \chi_0 \\ \chi_1 \end{cases} \Rightarrow R^{n+1} \begin{cases} \eta_0 = 1 \\ 0 \end{cases} \Rightarrow R^{n+1}$ $\chi_0 = \begin{cases} \chi_0 \\ \chi_1 \end{cases} \Rightarrow R^{n+1} \begin{cases} \eta_0 = 1 \\ 0 \end{cases} \Rightarrow R^{n+1}$ $\chi_0 = \begin{cases} \chi_0 \\ \chi_1 \end{cases} \Rightarrow R^{n+1} \end{cases} \Rightarrow R^{n+1} \Rightarrow R^{n+1}$