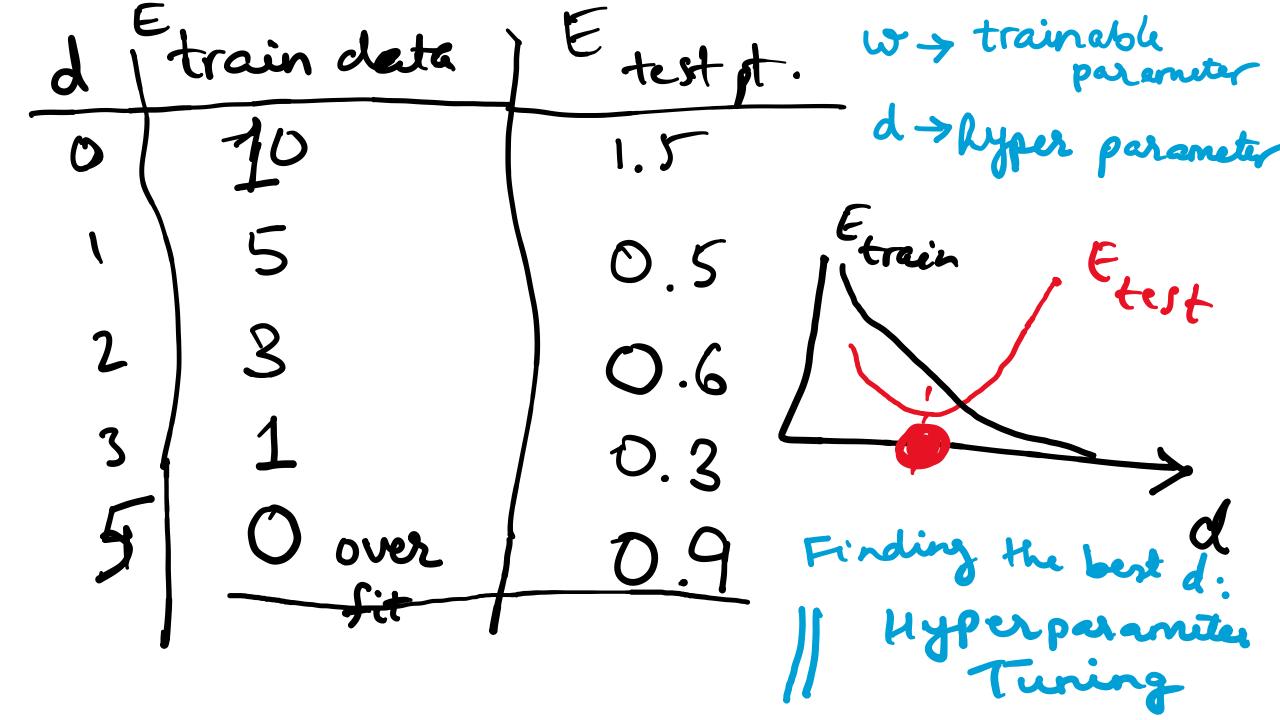
Learning a linear model from data x = 2 m

-0.25 0.9 9.7 95 25. perabola W, x + w2x 0.1 =  $(0.9)^{2}$   $(0.9)^{2$  Find us, us; the f(2)= vo+ v, 2+ v2.2 rf(n)fry = a+ q f(x) = aot an + . 2



random variable

$$y \in (0,1)$$

how to get  $y \in (-2\pi, 2\pi)$ 

$$y = g(x)$$
, what is  $g(x)$ ?

$$\begin{cases}
y = A \omega \\
y_{2} = \begin{cases}
1 & x_{1} & x_{2}^{2} \\
1 & x_{2} & x_{2}^{2}
\end{cases}$$

$$\vdots \\
y_{5} = \begin{cases}
1 & x_{1} & x_{2}^{2} \\
1 & x_{5} & x_{5}^{2}
\end{cases}$$

$$y = a_0 + a_1 x + a_2 x^2$$

$$1 \quad 2 \quad -3 \quad \text{training found this}$$

$$y = 1 + 2x - 3x^2 \quad \text{Modul}$$
what is  $y = x = 0.5$ ? \tag{ testing}
$$y = 1 + 2 \times 0.5 - 3 \times (0.5)^2$$

$$= 1.25$$