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Machine Learning Foundations Tutorial-Week 4

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Machine Learning Foundations

Let us understand polynomial regression by fitting following data points to

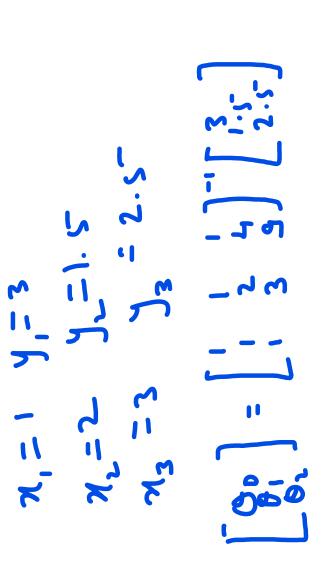
a second degree polynomial

				(<u>)</u>	d (4, 14,)		3	9
>	3	1.5	2.5	62,	8	3	Ī	1
×		2	3	4= 00+ 0, x.t	(x, y,) , (x, y,)	= 6, + 6, x, + 6, x, ²	これ、サイン・カナ の ル	= 60 + 61 ×3 + 62 ×3



\$ \$ \$

$$\begin{bmatrix} y_1 \\ y_2 \\ y_3 \\ y_4 \end{bmatrix} = \begin{bmatrix} x_1 & x_1 \\ x_2 & x_3 \\ y_3 & x_4 \\ y_4 \end{bmatrix} = \begin{bmatrix} y_1 \\ y_2 \\ y_3 \end{bmatrix} = \begin{bmatrix} y_1 \\ y_3 \\ y_4 \end{bmatrix} = \begin{bmatrix} y_1 \\ y_2 \\ y_3 \end{bmatrix}$$



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$$= 7 + (-5.25) \times 1 \cdot 1.25 \times^{2}$$

 $y = 7 + (-5.25) \times 1 \cdot 1.25 \times^{2}$

