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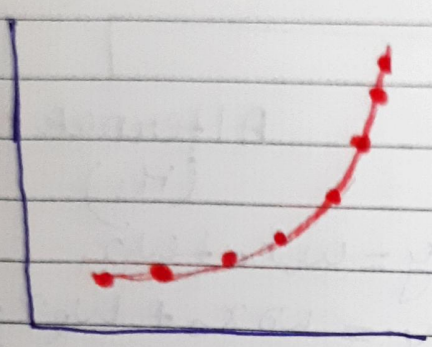
Polynomial Linear Regression—



$$\hat{y} = \underbrace{m_0 x_1^0}_{c} + m_1 x_1 + m_2 x_1^2 + m_3 x_3^3$$

$$\Rightarrow \hat{y} = m_1 x + m_2 y + m_3 z + c$$

$\because m_1, m_2, m_3$ — unknown parameter & it's linear

and x_1, x_2, x_3 — are known parameter

└ that's why it's Linear Regression.

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LR ⇒ $\hat{y} = mx + c$

MLR ⇒ $\hat{y} = m_1x_1 + m_2x_2 + m_3x_3 + c$

PLR ⇒ $\hat{y} = m_1x_1 + m_2x_2^2 + m_3x_3^3 + c$