Introduction to Machine Learning 3 types of Machine Learning Supervised Unsupervised Rainforcement Supervised - Regression ... ... Classification Unsufurused ML Superwised ML Lineau Regression 1. K- Means 2. Hivwichial Mean 3. OB Scan Clustering Ridge & Larso Elastie Net Logistic Regussion (Clarification) Decision True Both P Classification Random Florest Ada Boost XgBoost

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Equation of a Line, 3rd plane and Sypreplane (n Dimensions)

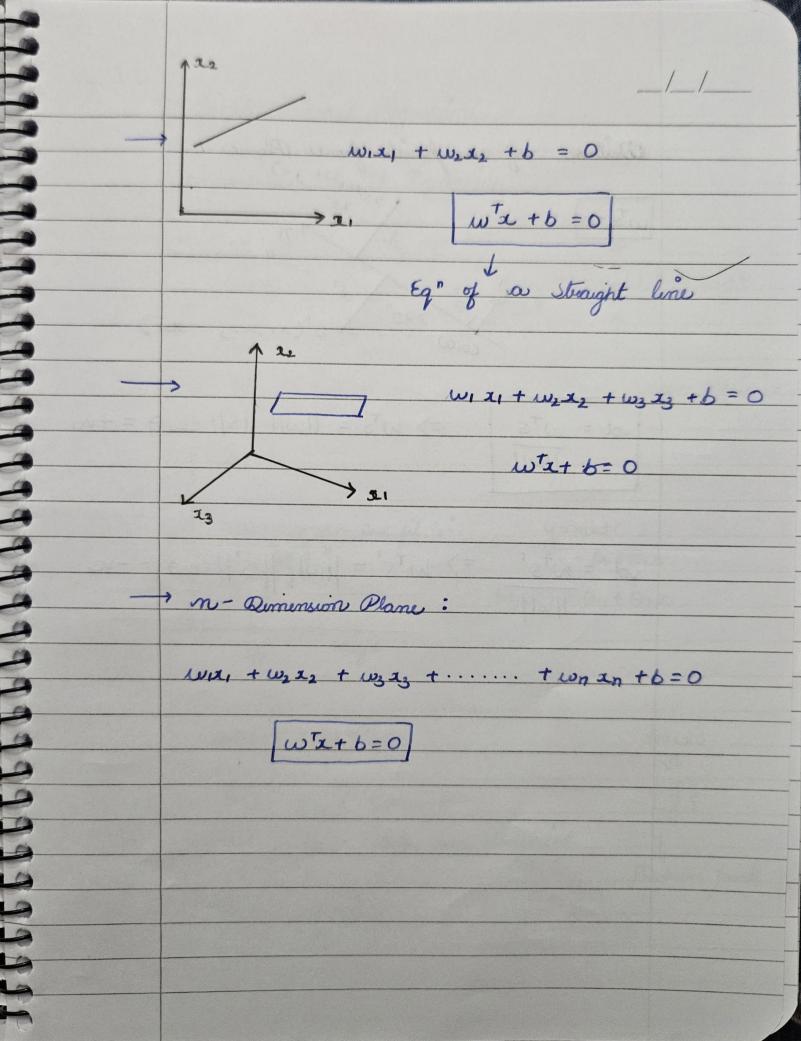
y = mx + c  $y = \beta_0 + \beta_1 x$  aa + by + c = 0

y = mx + c > c = interest

> m = Slope

 $\Rightarrow \cot + by + c = 0$  by + c = -vac by = -vac - c

 $y = \begin{vmatrix} -va \\ \overline{b} \end{vmatrix} x - \frac{c}{b}$   $\sqrt{b}$   $\sqrt{b}$   $\sqrt{c}$ 



Distance of a point from Plane

[w\fx=0]

\[
\sigma^2 \frac{790}{20} \\
\sigma^2 \frac{1}{20} \\
\sigma^2 \sigma^2 \sigma^2 \sigma^2 \\
\sigma^2 \frac{1}{20} \\
\sigma^2 \sigma^2 \sigma^2 \sigma^2 \sigma^2 \\
\sigma^2 \frac{1}{20} \\
\sigma^2 \sigma^2

 $|d = \omega^T S| \Rightarrow |\omega^T S| = ||\omega|| ||S|| \cos \theta = +vc$   $|\overline{|\omega||}$ 

vd'= WTS' => WTS' = ||w|| ||S'|| (000 = -ve