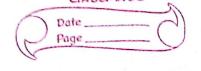


$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
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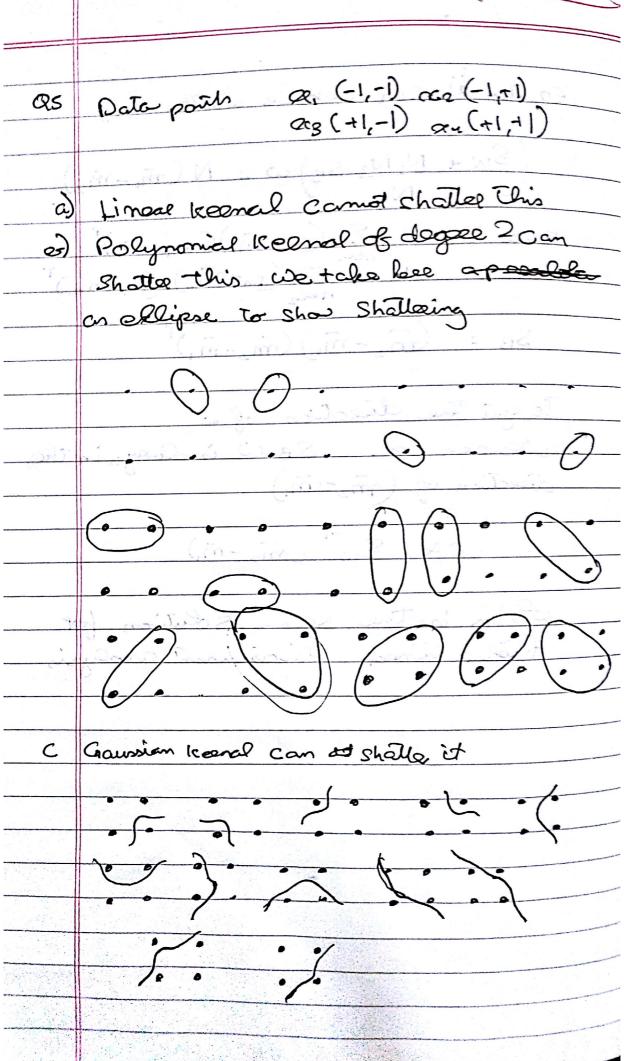
Bayes classifiers means classification of occueence of their otteilutes in Scanned by CamScanner



A (**	a N ac agnal to the total
Q3_	Let e data points and Ni Bethe
	number of clares
	Et N Re aqual To The total runber of data points and N, Bethe data points for tot and N2 for tot Class 2
	we call t as N & o and - N good 2
	we latel t as N Or Ne
	Then the Samof Square over function
1	E= 1 5 (wTxm+ co. +tm)
	Nal San
	$\frac{\partial E}{\partial \omega} = 0 \Rightarrow \sum_{n=1}^{N} C\omega^{T} \gamma_{n} + \omega_{n} - t_{n} = 0 (1)$
	DE =0 => Σm. (ωTom +ωTm) = 0 (11)
	J 2) 1021
	OR Can
	fear 11 compute
	$\omega_0 = -\omega^T \bar{\omega}$
	here m = N D=1
	ie m = 1 (N, m, + N, m,)
	Here m, and m2 see corresponding mean of
	dataset belong to class C, and C2
	and we can see
	$\Sigma t_m = N, \frac{N}{N_1} = N, \frac{N}{N_2} = 0$
ay a share and discovery to the	

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	$(SW + N_1N_2S_3)w = N(\bar{m}_1-\bar{m}_2)$
	$= \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_$
1	Tex Swa 2 (cm-mi) (an-mi)
	1000 Sw = \(\S \(\partial \text{cm} - \text{m_1} \) \(\partial \text{cm} - \text{m_2} \) \(\frac{\text{cm} - \text{m_2}}{\text{m_2}} \) \(\frac{\text{cm} - \text{m_2}}{\text{m_2}} \) \(\frac{\text{cm} - \text{m_2}}{\text{m_2}} \)
	wiedland to the Stallean
	$S_B = (\bar{m}_2 - \bar{m}_1)(\bar{m}_2 - \bar{m}_1)^T$
•	lo get the diection of a
	we can see . SB. W is aways in the
	disection of (\bar{m}_2 - \bar{m}_1)
	ω Sω (m2-m,)
and the same	
	Pio . The same solution for
	Thich is the same solution for fisher analysis
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