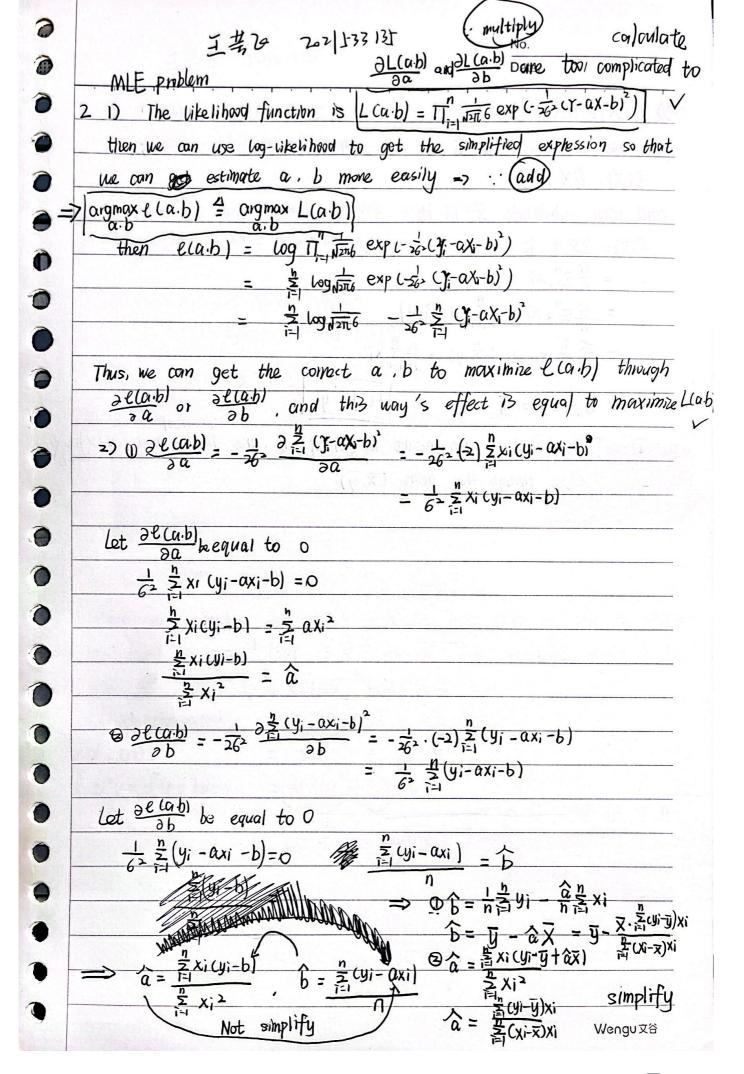


ate. / /	
37 : B is an unbia	sed estimator of D &
: E[6] = 日	male law = X ) == FIX-A 12 A/42 = 3 minus
- / Var (X)= E[X] - E1	[X] sud one or
·· Vouce) = WANN ED	[g]-E[g] <sup>2</sup>
= 5[	[6]-02 70xxxxxxx
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	B <sup>2</sup> Is not an unbiased estimator of B <sup>2</sup>
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M. CETAMORE CALINITY	2 2 = 1 = (x)+pw = - (zm) = =
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11	then we can use it to see the rate of
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$3) + (X) = \alpha X + b$	
let we substitute a. b in this expression	
$f(X) = \hat{\alpha}X + \hat{\beta}$	
and then substitute $\overline{X}$ in it.	
$f(\overline{x}) = \widehat{\alpha} \overline{x} + \widehat{b}$	
$= \frac{\hat{\alpha}}{n} \sum_{i=1}^{n} x_i + \hat{\beta} = 0$	
$= \frac{\hat{\alpha}}{n} \sum_{i=1}^{n} x_i + \frac{1}{n} \sum_{j=1}^{n} (y_i - \hat{\alpha} x_i)$	
$= \frac{\hat{\alpha} + \frac{h}{2} x_i + \frac{h}{n_{12}} y_i - \frac{\hat{\alpha} + \frac{h}{2} x_i}{h_{12}} x_i$	
$= \frac{1}{2} + \frac{1}{2} = \frac{1}{2} = \frac{1}{2} + \frac{1}{2} = $	
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almonys passes through the point (x, y).	76
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$O = \{d \cdot   x \rangle -   y     x \geq \frac{1}{2} $	
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3. D "linear" regards that the input features	and	the on	tputs	hon	
a linear relation.					
	. 4				
27 From we have learned in class. We define					
Bridge argmin PRSS (N.P) = argmin 114-XB1/2+ NIB1/2					
β = 319 mm   μου στη 1 = 31 β					
: PRSS (2, B) = 1/y-XB112 +A11B112					
= cy-xp) (y-xp) +>p B					
= yTy-BTXTy-yTXB+BTXTXB+ xBT	B				
CONTROL OF ANALYTIC					
to minimize PASSLAB) we take the derivative	6	, h.			
3PPSS (N.P) = -XTy -XTy + 2XTXB + 2XIP	B			1	
= -2XTy +2(XX+)1p) B m		VI I			
Let it begual to appess (1), it is equal to appear to ap	- 4	be below			
V V					
⇒ pridge = (xTx + > Ip) XTy = Bx					
Thus, we simply get this expression. but					
we need to prove, that is I should be	inverti	ble, giv	en )	17	
$\Rightarrow$ $X^TX + \lambda I_P = (CUDV^T)^T (UDV^T) + \lambda 1$	P				
SVD de composition. = VDUTUDVT + >1p					
$\chi = uDV^{T} = vD^{2}V^{T} + \lambda V1_{P}V^{T}$					
$V^TV = U^TU = IP = V(D^2) + DD)V^T$					
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ntity m		Lp is	a	
This 13 30m 1				tilia	
CAE J. 100	- D+ V	116 12	defi	THE RESERVE AND ADDRESS.	
: (XTX+ )1p) is invertible					
: Finally, we get it v					
1 111-1/2/					
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3)	4 (4.4)
(-2 <sub>1</sub> 1)	• (1.3)
-6 -4 -2	2 4 6
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	-6 (36)
Therefore, from the	graph above, we can know the given data set
	eparable. We can't use one line to separate
	from each other. Straight
Instead, we a	un use a circle to sperate them.  which is Multivariate nonhirear
	which is Miniting modeling
	<u> </u>
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