	Assignment 1					
Q١	For linear regression the cost jusction depends upon					
	the parameters theta.					
The second second						
	ho(x) = 00+014,+8242					
Committee of the second	J = (haca) 2 mg					
	$\frac{J}{2J} = \frac{(h_0(x) - y)^2}{(h_0(xi) - y^i)} \times \frac{1}{3}$					
	23 2 (10(2) = 9) 1)					
	30;					
	It is unally dependent on the parameters					
	The theta matrix is a not matrix where					
	n is the no- of features.					
	for large values of in this would become					
and the second	computationally more expense thus gradient					
	descent being shower would also proform					
	Letter. Gradient decent thus is better choice					
	if the same would of lating is loss of					
	if the vous number of features is large.					
02	Function Approximation is concerned with fluding					
2	the best fitting curve. Machine learning as					
	read related to predicting a new julyet land					
	on the trained data. You also need to keep					
	overlitting & underfitting into account white					
	or machine leggeration of a sile					
	performerly an machine leauveng algoritum					
Au	Likelihood function 2)					
Qy	The Marian					
	1(0) = { (N1.9 X2					
	for $0 \ge x $					
	01 x 1					
	TO' TO'					
	TO2) Prehies					
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	To	nucrease log li	whood we	nue 10	N. S.	
	dicre	osl O		(le norm of	-1.	
	4	0 = x =	Ja, 2942	(12 Moint of	<u> </u>	
	2)	for myn. o	The state of the s	2		
		A= x =	J M2 + 72	Nu2		
	D: max (1/2/11)					
		1 ≤ i ≤ N	P 1 1 1 2 2 2			
		A 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2			
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A A Bass	niktor	singo	LOD310 _			
	en ka sev e	also walked . waterd	o' ka araak			
	we need to nunimize					
	J ?	2 (4'-91)				
	J 2 Z (4: - (1) P x: - p)					
	for minimizing:					
		0			•	
	5	The second secon	The second secon			