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	AT61003 Lineau Algebra fou AI & ML Assignment 02 - Publem 4
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Signal of the same	[1] 가장하는 보고 <mark>하겠다.</mark> 그는 내용에 보는 사람들은 보다 보고 있다. 그 사람들은 보고 있는 가장 하는 보고 있다. 그리고 있다. 그리고 있다.
	Consider A & Rmm and x & RM
, E	Consider A & R ^{mxn} and x & R ⁿ . A has linearly independent column vectores.
	$Ax = x_1 A_1 + x_2 A_2 + \dots + x_n A_n$
	<u> </u>
	$=\sum_{i=1}^{N} x_i A_i$
6-	
	where Ai E Rm is the ith column of A.
7	De 15 of least to the age And a :15
	The LS solution to the eq Ax-b is if x. then J= A x - b 1 2 is minimized.
	$J = \hat{x}_1 A_1 + \hat{x}_2 A_2 + \dots + \hat{x}_n A_n - b _{\mathcal{A}} = \hat{\mu} _{\mathcal{A}}$
	Now Ax = 0 is a hyperplane (subspace) in Rh (shown below).
	in R" (shown below).
-	675
	$\hat{\mu} = A\hat{\lambda} - b$
	$A\hat{x} \times Ax = 0$ A $\hat{x} \times Ax = 0$
	Añ X (subspace of Rh)
14 × 1	So geometrically, in order to minimize
	A \hat{\hat{\alpha}} - b \frac{1}{\alpha} or \hat{\hat{\alpha}} \frac{1}{\alpha} \frac{1}{\alp
	- ndicular from B onto the plane
	Ax = 0. The 12 weeks the plane at
	At X where $A\hat{x} = \bar{o}\hat{x}$. Now since
j.	pt X where $A\hat{x} = \overline{OX}$. Now since $A\hat{x}$ is known, \hat{x} can be desired
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	uniquely because A has linearly independent when we will be the second of the second o			
manifestation of the state of t				
	je is I to the plane			
3.34	Now since û is I'm to the plane Ax=0 it is also I'm to all to vectoris that lie on the plane. û 1 Ai, 15ish			
	vecto	ers Th	ent le ou me plane.	
	: <u> </u>			
$= \bigcap_{i \in A_i} T_{ii} = O_{ii} = O_{ii}$				
Again and a second and a second as a secon	=) A: x = 0			
	=)	A		
		A ₂ T	n = 0 (system of n	
d'a de la de		H . Land	linear eg 4s)	
			32 PM 6 - 12 A 1 = T X 83 S	
		ANT_		
	1	1 1	1	
	But	A, T	T	
		A ₂ T	= A	
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