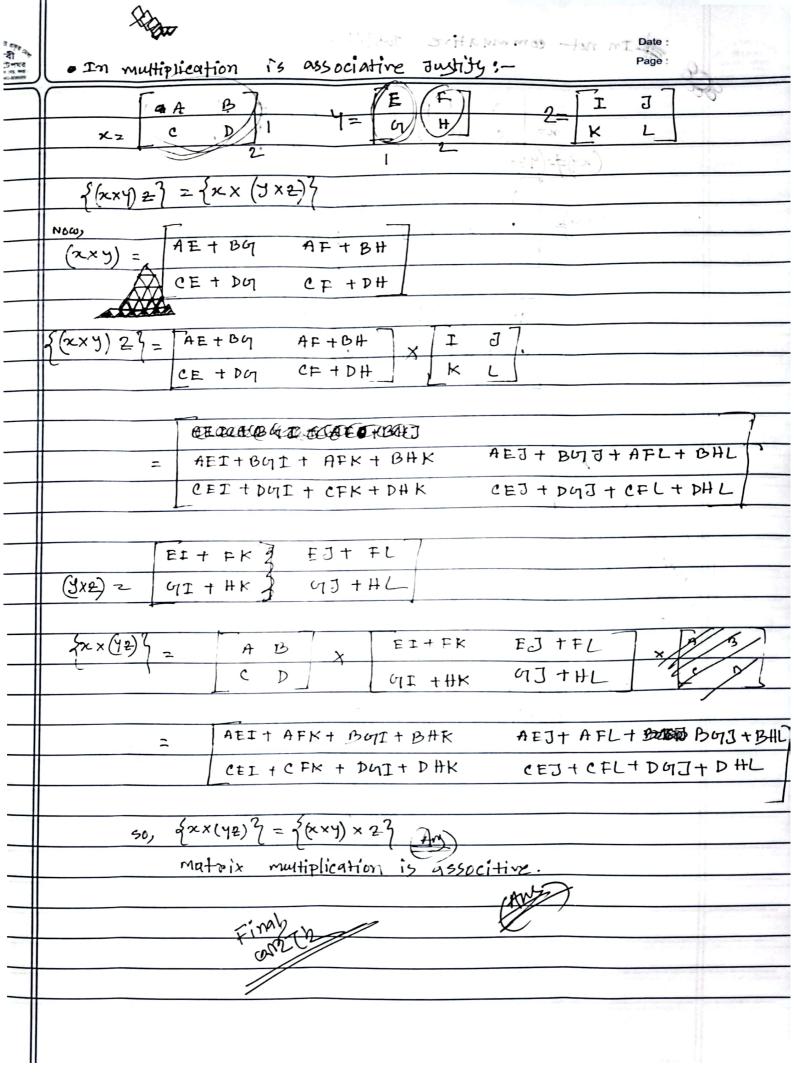
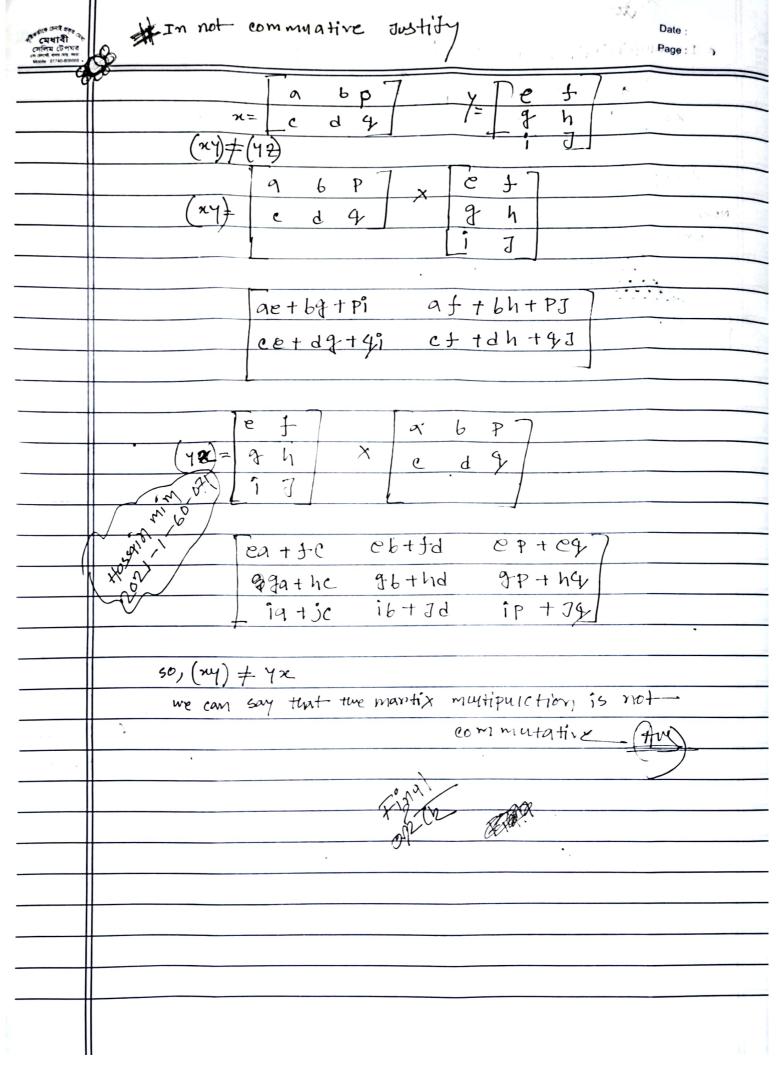


Dring STR OF BOB Fing Date: Page: under-sitting :- when a model has not learned the patterns in the training data well and is unable to generalization well on twe new data , it is known as under-fitting. An under-fitting model has poor Pertormance will result in underliable. under-fitting occurs due to high bird and Low variance. It too simple model and too much regularation in two model. Hossán mim 2021-1-60-07 under ditting over-titting: -- over-titting is a phenomenon that occurs when a machine learning model is constrain constraint to training set and not able to periform well on unseen data, over-fitting model is very complex and too little regular regularization over-titting model occurs due to Low bigs and high variance Appropinate endapat will over-titting Bios : we can como define bias the ermon between average model prediction and ground truth. · A model which High-Bias would not match the data set closely · A model Low- Bias will closely match the training data set Si lapoten The w marker yourses in the term of it of white-ware a Have providency at additional on the particular and and

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- iner-fit	variance refers to the changes in the model when		
7-3 H	ying different portions of the training cata		
diffic.	Set. It is the vaniability in the model		
	prediction-how much the machine learning		
- !	function can adjust - develops depending		
	given data set		
		18	
	Algorith Bias	variane	
	· Linear High	less	
340/2	Decision tree Low	thigh	
Zugu C	ongging Low	High (less than Deci sintree)	
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	# Get wome then data:		
	· when we are have high vaniance		
80	\$ # Try ditterent teatures:		
ź/	· Adding teatures helps tix thigh Bai Bias		
4	• using smanes set of features set of fix high variance # Try tuning your hyper parameter: • Decrease negularization when birs is high		
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	· Increase regulatization when vaniance is high,		
	# when a model has not learned the patterns in the training data well and is unable to generalization well on the new data, it is known as under-fitting. # when a model has not learned the patterns in the training data		
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	well and is unable to generalization well on the new data.		
	# over-fitting is a phenomenon that occurs when a machine		
	learning mode is constraint constraint to training set and		
	not able to perform well on us unseen data.		
	to ver-fitting is a phenomenon that occount when a ML model is constraint to training when set and not able to perform well all shorts of data.		



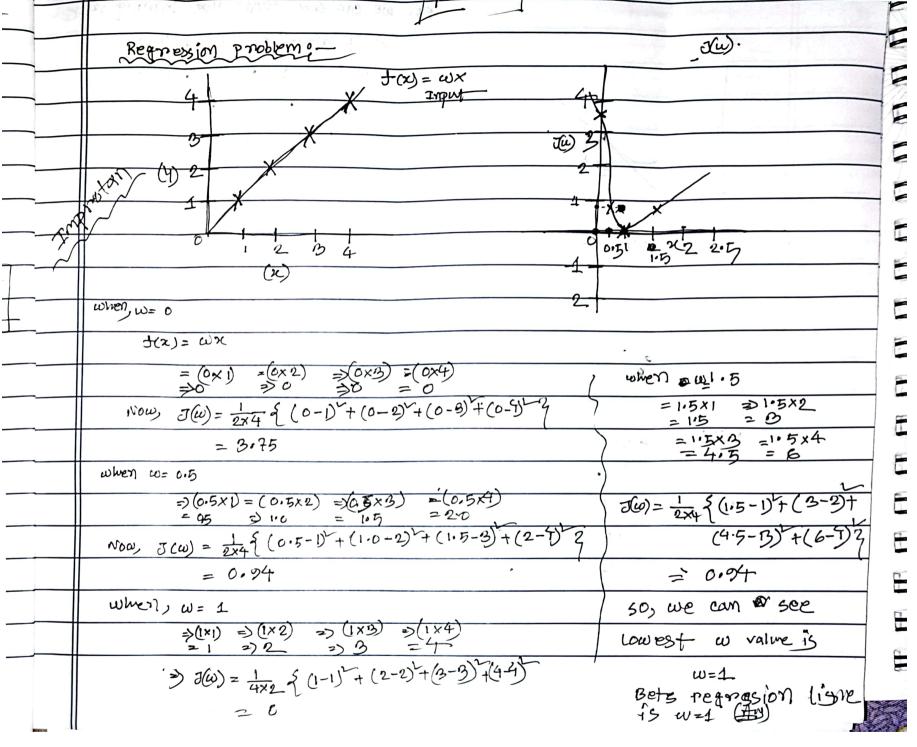


support vector machine kernel is a function that takes low dimensional springur space and transform it into a High dimensional space that meany it converts not separable problem to a separable problem. It is mostly useful in non-linear data sepatration. It simply could put it dose some extremely complex data transmation twen finds out the process to separate data base on the labely or output The sum kernel is a function that takes low dimensional input space and transform it into a high dimensional space that means it convents not separation separable problem to a separable problem. 2+ is mostly yetry in non-linear data separation problem. simply most put it dose some extremely complex data trammation then finds out the process to separate on the data based on the labels or output. It works by finding the best possible boundaries that cam separate two data points with maximum mangin, also known as hyperplane. The sum kernal is a finetion that takes low dimensional input space and transform it into a High dimensional space that means it converts not separable problem to a separable problem. It is mostly wetay in non-linear data separation problem. It simply put d'dose some extremely complex data toansmation, then it tinds out the process the data based on the labels on output. It works by finding the best possible boundaries than com separate two closses data points with maximum margin, also it known as hyperplane.



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sum is defined as a machine learning algoritum that wes supervised learning model to solve complex classification, regression, and outlier problem detection problem by performance optimal data trammations that determine boundaries between Bria H data point based on the labels or output. # The support vector machine pop 15 He sum is defined as a machine learning algorithm that uses supervised learning, model to solved complex classifacating regression and outlier detection problems by penforming optimal data tanymation that determine boundaries between data point based on the labels or output. support rector machine is defined as a machine learning that wes supervised learning model to solved complex classification, regression and outlier detection problem by performing that descripted de la companya optimal data tuat determine boundaries between data point based on the output The support vector machine is defined as a machine leavining 171511 algorithmy that uses supervised learning model to solved complex clossification, regression and outlier detection problem by performing the optimal data transmation that determine boundaries between the data points based on the labels on output > Hyperplane





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