Enrollment No.



## NAVRACHANA UNIVERSITY

School:School of Engineering and TechnologyProgram/s:BTech(IT)Year:3rdSemester:5thExamination:End Semester ExaminationExamination year:December - 2021

	IT337         Course Name:         Mathem:           09/12/2021         11:30 am to 01:30 pm         11:30 am to 01:30 pm         11:30 am to 01:30 pm	atics for Machine Learning Total Marks: 40 Total Pages: 01
Instructions: → Write each answer		
<ul> <li>→ Use of a simple cal</li> </ul>		지지 않는 것은 감독 관계에 가지 않았다.
	waveforms in answer sheet only.	성 것 그 옷에는 그렇게 가려 가려 있다. 또 말했
→ * COs=Course Outs	ome mapping. # BTL=Bloom's Taxonomy Lev	

Q. No.	Details	Marks	COs*	BTI#
Q.1	Attempt any five	[10]	005	DIL
А.	<ul><li>Which of the following are the examples of classification?</li><li>1. Face Recognition</li><li>2. Home price prediction</li></ul>	[02]		
	<ol> <li>Stock price prediction</li> <li>Garbage segmentation</li> <li>Medicine dosage prediction</li> <li>Right medicine identification</li> </ol>		C03	BT3
В.	<ul><li>Which of the following are the examples of regression?</li><li>1. Face Recognition</li><li>2. Home price prediction</li></ul>	[02]		
	<ol> <li>Stock price prediction</li> <li>Garbage segmentation</li> <li>Medicine dosage prediction</li> </ol>	<u>`</u>	CO3	BT3
C.	6. Right medicine identification	1003		
с. D.	Explain k-fold cross validation in detail. List different problems to be addressed while finding regression function.	[02]	CO3	BT1
Е.	Explain p vs H(p) graph.	[02]	CO3	BT1
<b>F</b> .	List and explain different types of probabilities in HMM.	[02] [02]	CO4 CO4	BT2 BT3
Q.2	Attempt any two	[10]		
А.	What do you mean by overfitting? Explain the role of regularization for reducing overfitting.	[05]	CO3	BT2
В.	Write a short note on Entropy.	[05]	C04	BT1
C.	Explain Least Square loss in detail.	[05]	CO4	BT1
Q.3	Attempt any two	[20]		
А.	Write a short note in model fitting.	[10]	CO3	BT1
В.	Write a short note in Bayes theorem.	[10]	CO3	BT1
C.	Write a short note in HMM.	[10]	CO4	BT1

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