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		
 → Use of a simple cal 		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.	Which of the following are the examples of classification?1. Face Recognition2. Home price prediction	[02]		
	 Stock price prediction Garbage segmentation Medicine dosage prediction Right medicine identification 		C03	BT3
В.	Which of the following are the examples of regression?1. Face Recognition2. Home price prediction	[02]		
	 Stock price prediction Garbage segmentation Medicine dosage prediction 	<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
F .	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

1