VII SEMESTER B.TECH. (COMPUTER SCIENCE ENGINEERING) END-SEMESTER EXAMINATIONS, DEC-JAN 2022

SUBJECT: MACHINE LEARNING WITH BIG DATA [CRA 4057]

PART B

(24/12/2021)

Time: 75 Min MAX. MARKS: 20

Instructions to students:

Students must write the answers in their own handwriting on a white sheet of paper. The details to be mandatorily written on the answer sheet are: Name, Semester, Roll Number, Registration Number, Course name, Signature with date [in each sheet].

On completion of answering the assignment, students need to scan/image (using device of your choice) all the answer sheet/s in sequence and save it with file name whose file name convention should be Registration Number followed by "CRA4057" and "Date" in PDF form. Ex: 200905011_CRA4057_24DEC2021.pdf

Upload the above pdf file containing the answers to MS Teams Assignment platform within the given schedule. CLICK ON "ADD WORK" OPTION, ATTACH THE PDF AND THEN CLICK ON "TURN IN".

IA.	Illustrate the steps involved in machine learning process.	5
IB.	When does overfitting and underfitting occurs in classification and what are their results? How to avoid overfitting?	3
IC.	Illustrate with examples how missing values are handled in machine learning?	2
2 A .	Explain Decision Tree algorithm in detail. What are Entropy and Information gain in Decision tree algorithm?	4
2B.	What is Linear Regression? What Are the Drawbacks of the Linear Model?	3
2C.	What is the difference between Regression and classification ML techniques? What are Recommender Systems?	3