## LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



## M.Sc. DEGREE EXAMINATION - COMPUTER SCIENCE

## FIRST SEMESTER - **NOVEMBER 2023**

## PCS1MC02 - MACHINE LEARNING USING PYTHON

	Time: 01:00 PM - 04:00 PM			
	Time. 01.00 FM - 04.00 FM			
SECTION A – K1 (CO1)				
	Answer ALL the questions $(5 \times 1 = 5)$			
1	Multiple Choice Questions (5 x 1 - 5)			
1	Train the model without the class label is called Learning.			
a)	a) Supervised b) Un Supervised c) Semi supervised d) Meta			
b)	is used for dimensionality reduction.			
	a) LDA b) PCA c) ROC d) both a & b			
c)	Model is not performing well in training dataset and also in test dataset is called			
	a) Over fitting b) Under fitting c) Fitting d) both a & b			
d)	Count the occurrence of words in a document without giving importance to the grammar and the			
	order of words.			
	a) Word Cloud b) Stemming c) Bag of Word d) N gram			
e)	learning is used to utilize the knowledge gained while solving one problem to solve a			
	different but related problem.			
	a) Reinforcement b) Transfer c) Supervised d) Un supervised			
SECTION A – K2 (CO1)				
	Answer ALL the questions $(5 \times 1 = 5)$			
2	Fill in the blanks			
a)	technique is used to predict the categorical value.			
b)	AUC stands for			
c)	AUC stands for  Split the dataset into train and test is called			
d)	Removing the prefix or suffix of a word is called			
e)	learning is rewarding desired behaviors and punishing undesired ones.			
SECTION B – K3 (CO2)				
	Answer any THREE of the following $(3 \times 10 = 30)$			
3	Experiment with Exploratory Data Analytics.			
4	Make use of Hierarchal clustering.			
5	Apply the k Fold cross validation.			
6	Utilize the concept of Text similarity.			
7	Explain about Transfer Learning.			
	SECTION C – K4 (CO3)			
	Answer any TWO of the following $(2 \times 12.5 = 25)$			
8	Examine the KNN classification algorithm with example.			
9	Analyze the concepts of stacking and bagging.			
10	Examine the Sentiment Analysis Technique.			
11	Analyze the concept of ANN.			

SECTION D – K5 (CO4)			
	Answer any ONE of the following	$(1 \times 15 = 15)$	
12	Evaluate the K-Means clustering algorithm with example.		
13	Explain the Random Forest algorithm with example.		
SECTION E – K6 (CO5)			
	Answer any ONE of the following	$(1 \times 20 = 20)$	
14	Construct and explain about Ada Boost Algorithm.		
15	Develop and explain the Convolutional Neural Networks.		

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