SHRI SHANKARACHARYA TECHNICAL CAMPUS

Bhillel (Chiladtisgarh)

An Autonomous Institute

Approved by AJCTE, New Dollni Affiliated in CSY Technical University, Shiles



श्री शंकराचार्य देवलीकत केउपस

[Dari Dengujul Education Sector)]

/स्वशासी संस्थान

MIRF Ranking Sects & Sects (Sami SG1-Sect)

Bank MSS Unit (Holders Level)

Am ING SECT (2014 & Decision Institution

All II Tack Correct Accredited by NBA, Nove Calvi Accredited by NSAC with "A" Errede

Session: EVEN SEM (2022-23)

Class Test - 1	Course Name: B Tech CSE-A, CSE-DS	Semester: 6th	
Time: 2 Hours	Subject Name: AIML	Min Marks: 14	
	Subject Code: CS102603	Max Marks: 40	

Cour	rse O	utcome:					-
CO1 Understand a wide variety of learning algorithms.							
CO2		Understand how to evaluate me	odels generated from data				
Q. No.		Questions		Marks	СО	B	PI
1	a	Write difference between linear a		2	COI	L2	1.3.
1	b	Explain different stages of ML lif	e cycle with neat and clean diagram?	6	CO2	L2	1.3.1
1	c	Explain linear regression. Calculate the linear regression coefficient from given data.	X Y 1 9 2 8 3 10 4 12 5 11 6 13 7 14	6	CO3	L2	1.3.1
1	d	What is data normalization? Explain one method with an example?		6	CO3	L1	2.1.2
2	a	Write different scope and limitations of ML?		2	CO2	L3	2.1.3
2	ь	Write the difference between supervised learning, unsupervised learning and reinforcement learning with example?		6	CO4	L2	1.3.1
2	С	Explain briefly about Logistic Regression. Find gradient decent of linear regression given sets give graphical representation. Where $\emptyset 1 = 0.0$ ($\{0,1\},\{0,2\},\{0,3\}$) $\emptyset 2 = 0.5$ ($\{0.5,1\},\{1,2\},\{1.5,3\}$) $\emptyset 3 = 1.0$ ($\{1,1\},\{2,2\},\{3,3\}$)		6	COS	L2	1.3.1

2	d	Explain perceptron convergence theorem?				
_	-		6	CO2	L3	2.1.3
3	a	Write the difference between online and batch learning?	2	CO3	L2	1.3.1
3	ь	Explain relationship and difference between ML, DL, AI and DS?	5	COL	12	1.3.1
3	С	In context of machine learning explain under fitting, overfitting, bias and variance trade-off with neat and clean diagram?	5	CO5	L1	2.1.2
3	d	Write different applications of machine learning?	5	CO6	L2	1.3.1

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