SRM Institute of Science and Technology Department of Computer Applications Delhi – Meerut Road, Sikri Kalan, Ghaziabad, Uttar Pradesh – 201204

Academic Year: 2023-24 (EVEN)

SET-A

Test Cour Year	: Internal Examination I rse Code & Title: UDS21401J (Deep Learning For Enterprise)	1 Hour 30	01-202) Mins	4 & AN	1
	Part – A	(9Q x 2N	1 - 19	Marks	
	Answer all questions	(9Q x 2N	BL	CO	PO
Q. No		2	L1	1	2
1	Can Relu function be used in output layer?		L1	1	1
2	Define the term cost function. $J(0_0, 0_1) = \frac{1}{2m} \sum_{i=1}^{m} (h_0(x^{(i)}) - y^{(i)})$ Define Farly Stopping in Overfitting.	2			1
3	Define Early Stopping in Overfitting.		L1	1	1
4	List out names of different layers of Autoencoder.	2	L1	1	1
5	Explain about perceptron.	2	L1		
5	Write and describe about layers in Neural Network?	2	L1	2	1
,	What are the supervised learning algorithms in Deep learning?	2	L1	2	2
	What is model deployment in the context of deep learning? A. The process of creating a deep learning model B. The process of training a deep learning model C. The process of making a trained model available for use	2	L1	2	
	D. The process of fine-tuning model hyperparameters The number of nodes in the input layer is 10 and the hidden layer is 5. The maximum number of connections from the input layer to the hidden layer are A. 50 B. less than 50 C. more than 50 D. It is an arbitrary value	2	L2	2	2
	Part - B		101	22 M	arles
	Answer all questions		NAMES OF TAXABLE PARTY.	= 32 M CO	PO
. No	Questions	Marks	BL		
120000	Compare and contrast supervised and unsupervised learning algorithm.	16	L2	2	2
	(OR)				

11 (B)		(A)	10 (B)
Describe the following:- a. Weight b. Gradient Descent	(OR)	Write the difference between Forward Propagation and Backward Propagation.	Explain working of Autoencoder. Describe the work of generator and discriminator with Example.
16		16	16
		L2	1
H		2	2
1		2	2

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Academic Year: 2023-24 (EVEN) SET - B



Date& Session: 30/01/2024 & AN Test: Internal Examination- I Duration: 1:30 Hours Course Code & Title: UDS 21402J Introduction to Computer Vision Max. Marks: 50 Year & Sem: II Year / IVSem Part - A (9Qx 2M = 18 Marks)Answer all questions PO BL CO Marks Ouestion Q. No Compare the Human vision and Computer Vision. 1 Write the Challenges of computer vision. 2 What do you understand by Medical image analysis? 3 Discuss about the concept of Object recognition. 4 Write the difference between Virtual reality And Augmented Reality. 5 Define the Different types of Image processing Techniques. 6 Describe the concept of independent Component Analysis. 6 Define Business Problem Identification. 8 Discuss the concept of Surveillance with example. 9 Part B 20 x 16M = 32 Marks Answer all questions 3 16 (A) Explain Train the computer vision model in details. 5 (B). Explain the Content-Based Image Retrieval with diagram. 16 4 (A)Describe the concept of Data Ingestion and Data Pre-processing in Details 16 11. (OR) (B)Describe the Components of Computer vision solution and Iterate the steps 16 process with example



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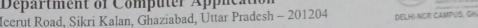
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SET-B



Academic Year: 2023-24 (ODD) Date & Session: 31/01/2024 AN : Internal Examination I **Duration: 1 Hour 30 Mins** Course Code & Title: UDS21403J, Working with Big Data Max. Marks: 50 Year & Sem : II/IV Part - A $(9Q \times 2M = 18 \text{ Marks})$ Answer all questions CO BL Marks Ouestion O. No Explain the 6v's of Big Data. 1 Define the term Big data with its various advantages. 2 Demostrate the MongoDB command for deletion of document in a collection. 3 List any four tools used for big data analytics. 4 Differentiate between operational big data and analytical big data technology. 5 2 Define the term text mining in data mining. 6 3 Explain In memory analytics with its importance. 3 Differentiate between test extraction with text retrieval. 8 Differentiate between NoSql database and RDBMS. 9 Part B $20 \times 16M = 32 Marks$ Answer all questions (A) Explain Apache storm with its architecture and also explain its key 16 11. advantages and disadvantages. (OR) (B)Explain predictive analytics with its model and also explain the key benefits 3 16 with various use case of predictive analytics. (A)Differentiate between hadoop 1.0 and hadoop 2.0 architecture and also explain 16 12. the various component of hadoop 1.0 architecture in detail. (OR) (B) Discuss Apache spark architecture in detail and also explain the features of 16 various component that are present in apache spark.

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SET-B Academic Year: 2023-24 (EVEN)

Test : Internal Examination I Course Code & Title: UDS21404J Data Science for Enterprise Year & Sem : II Year / VI Sem Date & Sess Duration: 1 Max. Mark				ssion: 01/02/2024 & AN 1 Hour 30 Minutes ks: 50				
	Part - A	(9Q x	(9Q x 2M = 18 Marks)					
Answer	all questions	Marks	BL	CO	PO			
Q. No	Question	2	1	1	1			
1 E	xplain the need for data science.	2	2	1	2			
2 C	ontrast the concept of streaming algorithm.		1	2	3			
3 D	escribe the general learning model of machine learning.	2						
	ammarize the concept of compression in data science.	2	2	1	1			
4 Su	olve the channel capacity of TV satellite having bandwidth of 10khz.	2	3	1	3			
1	eframe the flow chart of numerical optimization.	2	5	1	3			
	ompare the classification and regression problem.	2	2	2	2			
/	plain the curse of dimensionality reduction.	2	1	2	1			
	ompare the lossy and lossless compression in data science.	2	2	1	2			
	Part B							
	Answer all questions	2Q	2Q x 16M = 32 Marks					
10. (A)	Create a decision tree model for a problem and calculate the expecte each decision node.	d value 16	6	1	3			
101	(OR)			-	1 2			
(B)	Compare and summarize the types of ensemble methods.	16	2		2			
(A)	Describe the concept of bias variance tradeoff in data science.	16	1	2	4			
	(OR)							
	Illustrate the working of data science. Explain each step of data sciencess.	nce 16	15	2	3			
pro	CCOO.							