Velegapudi Ramakrishna Siddhartha Engineering College::Vijayawada (Autonomous)



IV/IV B Tech Degree Examinations(December/2023) Seventh Semester

Department of Information Technology

20IT7301-DEEP LEARNING

Part - A is Compulsory	Time:3Hrs MODEL QUESTION PAPER Max Marks:70								
Answers to any single question or its part shall be written at one place only Cognitive Levels(K): K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create Q. No Question Question Aarks Course Outcom Level Q. No Part - A 1 a Differentiate between Machine Learning and deep Learning. 1 CO1 K2 b What is the need for validation data in deep learning? 1 CO2 K2 d Explain the use of zero padding in CNN 1 CO2 K2 e List any three hyper parameters used in deep learning models 1 CO2 K2 e List the types of layers in CNN 1 CO2 K2 g List any 4 applications of deep learning. 1 CO1 K1 h What is sparsity in autoencoder 1 CO2 K2 I Write the difference between convolutional neural network and recurrent neural network? 1 CO3 K2 Part - B Write the difference between convolutional neural network and recurrent network. j Briefly explain attention mechanism 1 CO2 K2 Value Value									
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5 a Differentiate between PCA and Autoencoder for dimensionality 7 CO2 K4	5 a	Differentiate between PCA and Autoencoder for dimensionality	7	CO2	K4				

		reduction.					
	b	Explain the concept of denoising in auto encoders	8	CO2	K2		
	UNIT – III						
6	a	Explain unfolding computational graphs in detail	7	CO3	K2		
	b	Draw an RNN architecture for summarizing a sequence and	8	CO3	K3		
		produce a fixed- size representation					
		(OR)					
7	a	Discuss the challenges of long term dependencies	7	CO3	K2		
	b	Discuss about LSTM architecture in detail.	8	CO3	K2		
UNIT – IV							
8	a	Discuss the application of the visual attention approach for image	7	CO2	K3		
		captioning					
	b	Explain the working of Neural Turing machine with a neat diagram	8	CO2	K2		
(OR)							
9	a	What is GAN? Explain the process of generating image data with	9	CO2	K3		
		GAN					
	b	Discuss the limitations of Neural Networks	6	CO1	K4		

Designation	Name in Capitals	Signature with Date
Course Coordinator		
Program Coordinator		
Head of the Department		