aper / Subject Code: 89352		
(3 Hours) N.B. 1. Question No. 1 is compulsory 2. Attempt any three questions from remaining five questions 3. Assume suitable data if necessary and justify the assumptions 4. Figures to the right indicate full marks Ol Solve any four (4) A Compare Linear and Non linearly Separable Patterns with a suitable example. B Draw a neat diagram of any five activation functions C Perform Zero padding with p=1 on following: 9 1 9 1 9 1 9 1 O What is Selective Forgettin RNN? Explain with a suitable example. E Besign and Explain auto encodermodel for denoising images O A Solve the following classification problem using the Perceptron learning rule. The imput/target for our test problems are (Pi = [2 2], Ti = 0), (P2 = [1 - 2], D2 = 1), (P3 = [-2, -2], 13 = 0), (P4 = [-1, 1]); Initial weight vector w (0) = [0, 0]t and bias b(0)=0. Assume learning rate c=1 and thipolar binary activation function. Show only 2 cycles.	File:	20.
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Initial weight vector w (0) = 10, 0]t and bias b(0)=0. Assume learning rate c=1 and unipolar binary activation function. Show only 2 cycles. B With the help of a near diagram explain the Error Backpropagation Perceptron Training Algorithm (EBPTA). Derive the equation for change in weight in the		
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Training Algorithm (EBPTA) Derive the equation for change in weight in the hidden layer and output layer. A Explain how Recurrent Neural Network (RNN) can be used for text		
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23 A Explain now Recurrent Neural Network (RNN) can be used for text	10	
summarization application and Design and draw the architecture for the same.		
What is a Gated Recurrent Unit? Illustrate with a diagram.	10	
53, 32, 42, 52, 34,		
A Briefly describe VGGNet deep learning architecture.		
A Explain how Recurrent Neural Network (RNN) can be used for text summarization application and Design and draw the architecture for the same. What is a Gated Recurrent Unit? Illustrate with a diagram. A Briefly describe VGGOet deep learning architecture. Perform max pooling and average pooling for both stride = 1 and stride = 2 with filter size = 2 X2.		
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15773 Page 1 of 2		
15773 Page 1 of 2		
TABLE OF THE PARTY		

