Question Paper Code

12672

B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024

Fourth Semester

Computer Science and Engineering (AIML) 20AIPC502 - DEEP LEARNING

Regulations - 2020

Duration: 3 Hours Max.				ırks: 1	100	
PART - A $(10 \times 2 = 20 \text{ Marks})$ Answer ALL Questions			Mark	Marks K – CO		
1.	State	the salient features of Neural Network	2	K1	CO1	
2.	Give	the basic elements of a Biological neuron.	2	K1	CO1	
3.	3. List the benefits of activation functions.			K1	CO2	
4.	4. Define under fitting.			K1	CO2	
5.	5. What is stacking?			K1	CO3	
6.	Defin	ne Data Augmentation.	2	K1	CO3	
7.	7. Mention the Drawbacks of RNN.			K1	CO4	
8.	Defin	ne LSTM.	2	K1	CO4	
9.	9. List out the Deep Associative Memory Networks.			K1	CO5	
10. Why is Generative Adversarial Networks (GAN) so popular?			2	K2	CO5	
PART - B (5 × 13 = 65 Marks) Answer ALL Questions						
11.	a)	Explain about HISTORICAL CONTEXT and MOTIVATION fo Deep Learning.	r 13	K2	CO1	
		OR				
	b)	Describe the concept of Feed forward neural networks in detail.	13	K2	CO1	
12.	a)	Describe the various Activation functions RELU, LRELU and ERELU.	1 13	K2	CO2	
		OR				
	b)	Briefly discuss the performance of Machine learning and deep learning.) 13	K2	CO2	
13.	a)	How would you construct Alex Net layers and filters? Explain. OR	13	K2	СОЗ	
	b)	Explain the Architecture of Convolution Neural Networks in detail.	13	K2	CO3	

14. a) With an example expression, Explain about Forward and Backward 13 K2 CO4 computational Graphs.

OR

- b) Describe Encoder-Decoder sequence to sequence architecture. 13 K2 CO4
- 15. a) Elaborate on DBN and DBM with necessary examples.

OR

b) Describe Generative Adversarial Network with a neat sketch. Explain 13 K2 CO5 its various classifications with necessary examples.

PART - C $(1 \times 15 = 15 \text{ Marks})$

- 16. a) Elaborate and Analyze the steps carried out for identify fake video.

 15 K2 CO6

 OR
 - b Demonstrate the design principles for classifying the real images in a 15 K2 CO6 meta dataset using deep learning.