Code No: 138DU



Time: 2 Hours

Answer any Five Questions All Questions Carry Equal Marks - - -

- List and explain the various activation functions used in modeling of artificial neuron. Also 1. explain their suitability with respect to applications. [15] Describe the Characteristics of Continuous Hopfield memory and discuss how it can be used 2. to solve Traveling salesman Problem. [15] Explain the architecture and algorithm of full CPN with diagram. 3. [15] 4. Give the Architecture of kohenen self-organizing and explain how it is used cluster the input vectors. [15]
- 5. Give an example of learning XOR function to explain a fully functioning feed forward network. [15]
- 6. Explain in detail about the concept of gradient based learning. [15]
- 7. Write an early stopping meta-algorithm for determining the best amount of time to train. [15]
- 8. Discuss the application of second-order methods to the training of deep networks. [15]

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