

FACULTY OF ENGINEERING

B.E. CSE (AI&ML) VI Semester (AICTE) (Main) (New) Examination, September / October 2023

Subject: Deep Learning Techniques

Time: 3 Hours

Max. Marks: 70

- Note: (i) First question is compulsory and answer any four questions from the remaining six questions. Each questions carries 14 Marks.
(ii) Answer to each question must be written at one place only and in the same order as they occur in the question paper.
(iii) Missing data, if any, may be suitably assumed.

1. a) What is the promising future of AI?
b) What are the advantages of neural networks?
c) Explain the role of hyper parameter tuning in neural network training.
d) What are the top five use cases of TensorFlow?
e) Describe the shape or dimension of input data for a recurrent neural network.
f) Discuss the importance of pooling layer in Convolutional Neural Network.
g) Distinguish between biological and artificial neuron.
2. a) How deep learning works? What are various applications of deep learning?
b) Differentiate in between in Artificial Intelligence and Deep Learning.
3. a) What is Perceptron? Explain the working of Perceptron?
b) List and explain the various activation functions used in modeling of artificial neuron. Also explain their suitability with respect to applications.
4. a) What is feed-forward network? Explain gradient based learning in a feed forward network.
b) How to build a neural network using TensorFlow? How do you visualize a neural network in TensorFlow?
5. a) With the help of a diagram, explain basic building blocks of Convolutional Neural Network architecture.
b) Discuss about Recursive Neural Networks with neat diagram.
6. a) What are various implementations available for large-scale deep learning.
b) Explain the use of deep learning in Natural Language Processing.
7. a) What are various steps required for installation of TensorFlow? Discuss about various TensorFlow Operations.
b) Explain about backpropagation algorithm for training a neural network.

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