

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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David Baud



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Table of Contents Industrial Electronics N1 Previous Question Papers

1. Understanding the eBook Industrial Electronics N1 Previous Question Papers
 - The Rise of Digital Reading Industrial Electronics N1 Previous Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Industrial Electronics N1 Previous Question Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Industrial Electronics N1 Previous Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Industrial Electronics N1 Previous Question Papers
 - Personalized Recommendations
 - Industrial Electronics N1 Previous Question Papers User Reviews and Ratings
 - Industrial Electronics N1 Previous Question Papers and Bestseller Lists

5. Accessing Industrial Electronics N1 Previous Question Papers Free and Paid eBooks
 - Industrial Electronics N1 Previous Question Papers Public Domain eBooks
 - Industrial Electronics N1 Previous Question Papers eBook Subscription Services
 - Industrial Electronics N1 Previous Question Papers Budget-Friendly Options
6. Navigating Industrial Electronics N1 Previous Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Industrial Electronics N1 Previous Question Papers Compatibility with Devices
 - Industrial Electronics N1 Previous Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Industrial Electronics N1 Previous Question Papers
 - Highlighting and Note-Taking Industrial Electronics N1 Previous Question Papers
 - Interactive Elements Industrial Electronics N1 Previous Question Papers
8. Staying Engaged with Industrial Electronics N1 Previous Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Industrial Electronics N1 Previous Question Papers
9. Balancing eBooks and Physical Books Industrial Electronics N1 Previous Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Industrial Electronics N1 Previous Question Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Industrial Electronics N1 Previous Question Papers
 - Setting Reading Goals Industrial Electronics N1 Previous Question Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Industrial Electronics N1 Previous Question Papers
 - Fact-Checking eBook Content of Industrial Electronics N1 Previous Question Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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