

Personalized Learning Plan

Create Study Schedule

Study Plan for B.Tech. Artificial Intelligence and Data Science - Deep Learning Techniques:

Week 1-2:

Module I - Introduction to Deep Learning

- Learn about learning algorithms, maximum likelihood estimation, neural networks, back-propagation algorithm, and curse of dimensionality.

Week 3-4:

Module II - Deep Learning Architectures

- Explore representation learning, activation functions, unsupervised training of neural networks, and deep learning applications.

Week 5-6:

Module III - Deep Learning Networks

- Understand the historical context of deep learning, classes of deep learning networks, and hybrid deep networks.

Week 7-8:

Module IV - CNN Architecture & Sequence Modelling

- Dive into CNN architecture, sequence modeling, recurrent neural networks, and popular CNN architectures like ResNet and AlexNet.

Week 9-10:

Module V - Practical Methodology and Application

- Implement cross-validation, feature selection, regularization, and debugging strategies. Work on applications like computer vision, speech recognition, and natural language processing.

Note: This study plan covers 10 weeks to complete the entire course content.

End of Plan

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