IISER Pune - Course Content

Nature of Course Credit 4 Coordinator and participating faculty (if any) Pre-requisites For this the level of the lev	,33,21
Course Code Course title Deep Nature of Course Credit Coordinator and participating faculty (if any) Pre-requisites Cobjectives This collearning netwood recurred experi	Learning ecture and Lab edartha Goswami s year only: Linear algebra, probability, statistics (at
Course title Nature of Course Credit Coordinator and participating faculty (if any) Pre-requisites Cobjectives This collearning netwood recurred experi	Learning ecture and Lab edartha Goswami s year only: Linear algebra, probability, statistics (at
Nature of Course Credit Coordinator and participating faculty (if any) Pre-requisites Objectives This collearning netwood recurred experi	ecture and Lab edartha Goswami s year only: Linear algebra, probability, statistics (at
Credit 4 Coordinator and participating faculty (if any) Pre-requisites For this the level of t	edartha Goswami s year only: Linear algebra, probability, statistics (at
Coordinator and participating faculty (if any) Pre-requisites For this the level of the level	s year only: Linear algebra, probability, statistics (at
participating faculty (if any) Pre-requisites For this the level of	s year only: Linear algebra, probability, statistics (at
Objectives This collearning netwood recurred experi	• • • • • • • • • • • • • • • • • • • •
learnir netwo recurre experi	- ,
results neural results will be model	ourse will provide a foundational introduction to deep ng. Students will be taught to work with modern neural rk architectures involving feed forward, convolutional, ent, and attention layers. They will gain hands-on ence in the tutorials on how to build a deep learning on their own and how to train it to give reliable s. They will understand the fundamentals of how networks are trained, how they learn, and how their is can be interpreted. Upon completion, the students able to work with state-of-the-art deep learning is and read and understand the relevant scientific are on the topic. No such course exists at IISER Pune.
RNNs how to	risation, optimisation, multilayer perceptrons, CNNs, LSTMs, GRUs, transformers, graph neural networks, train your network, popular network architectures, nable AI, adversarial robustness, fairness and ethics
End-se	em: 30% em: 50% s: 20%
M. Bis - Prob Press - Deep	
When Next Aug 20	Learning, Ian Goodfellow, Yoshua Bengio, & Aaron ille, MIT PRess 2016
Date Uploaded 2025-0	ille, MIT PRess 2016