

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Computer Science and Engineering - NOC:Applied Accelerated Artificial Intelligence

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Co-ordinating Institute - IIT - Madras

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Introduction to AI Systems Hardware - Part 1
- Lecture 2 - Introduction to AI Systems Hardware - Part 2
- Lecture 3 - Introduction to AI Accelerators, GPUs
- Lecture 4 - Introduction to Operating Systems, Virtualization, Cloud - Part 1
- Lecture 5 - Introduction to Operating Systems, Virtualization, Cloud - Part 2
- Lecture 6 - Introduction to Containers and IDE Dockers - Part 1
- Lecture 7 - Introduction to Containers and IDE Dockers - Part 2
- Lecture 8 - Scheduling and Resource Management - Part 1
- Lecture 9 - Scheduling and Resource Management - Part 2
- Lecture 10 - DeepOps: Deep Dive into Kubernetes with deployment of various AI based Services - Part 1
- Lecture 11 - DeepOps: Deep Dive into Kubernetes with deployment of various AI based Services - Part 2
- Lecture 12 - DeepOps: Deep Dive into Kubernetes with deployment of various AI based Services Session II - Part 1
- Lecture 13 - DeepOps: Deep Dive into Kubernetes with deployment of various AI based Services Session II - Part 2
- Lecture 14 - Design principles for Building High Performance Clusters - Part 1
- Lecture 15 - Design principles for Building High Performance Clusters - Part 2
- Lecture 16 - Design principles for Building High Performance Clusters - Part 3
- Lecture 17 - Design principles for Building High Performance Clusters - Part 4
- Lecture 18 - Introduction to Pytorch - Part 1
- Lecture 19 - Introduction to Pytorch - Part 2
- Lecture 20 - Introduction to Pytorch - Part 3
- Lecture 21 - Introduction to Pytorch - Part 4
- Lecture 22 - Profiling with DLProf Pytorch Catalyst - Part 1
- Lecture 23 - Profiling with DLProf Pytorch Catalyst - Part 2
- Lecture 24 - Introduction to TensorFlow - Part 1
- Lecture 25 - Introduction to TensorFlow - Part 2
- Lecture 26 - Accelerated TensorFlow - Part 1
- Lecture 27 - Accelerated TensorFlow - Part 2
- Lecture 28 - Accelerated TensorFlow - XLA Approach - Part 1
- Lecture 29 - Accelerated TensorFlow - XLA Approach - Part 2

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- Lecture 30 - Optimizing Deep learning Training: Automatic Mixed Precision - Part 1
- Lecture 31 - Optimizing Deep learning Training: Automatic Mixed Precision - Part 2
- Lecture 32 - Optimizing Deep learning Training: Transfer Learning - Part 1
- Lecture 33 - Optimizing Deep learning Training: Transfer Learning - Part 2
- Lecture 34 - Fundamentals of Distributed AI Computing Session 1 - Part 1
- Lecture 35 - Fundamentals of Distributed AI Computing Session 1 - Part 2
- Lecture 36 - Fundamentals of Distributed AI Computing Session 2 - Part 1
- Lecture 37 - Fundamentals of Distributed AI Computing Session 2 - Part 2
- Lecture 38 - Distributed Deep Learning using Tensorflow and Horovod
- Lecture 39 - Challenges with Distributed Deep Learning Training Convergence
- Lecture 40 - Fundamentals of Accelerating Deployment - Part 1
- Lecture 41 - Fundamentals of Accelerating Deployment - Part 2
- Lecture 42 - Accelerating neural network inference in PyTorch and TensorFlow - Part 1
- Lecture 43 - Accelerating neural network inference in PyTorch and TensorFlow - Part 2
- Lecture 44 - Accelerated Data Analytics - Part 1
- Lecture 45 - Accelerated Data Analytics - Part 2
- Lecture 46 - Accelerated Data Analytics - Part 3
- Lecture 47 - Accelerated Data Analytics - Part 4
- Lecture 48 - Accelerated Machine Learning
- Lecture 49 - Scale Out with DASK
- Lecture 50 - Web visualizations to GPU accelerated crossfiltering - Part 1
- Lecture 51 - Web visualizations to GPU accelerated crossfiltering - Part 2
- Lecture 52 - Accelerated ETL Pipeline with SPARK - Part 1
- Lecture 53 - Accelerated ETL Pipeline with SPARK - Part 2
- Lecture 54 - Applied AI: Smart City (Intelligent Video Analytics) Session 1 - Part 1
- Lecture 55 - Applied AI: Smart City (Intelligent Video Analytics) Session 1 - Part 2
- Lecture 56 - Applied AI: Smart City (Intelligent Video Analytics) Session 2 Deepstream - Part 1
- Lecture 57 - Applied AI: Smart City (Intelligent Video Analytics) Session 2 Deepstream - Part 2
- Lecture 58 - Applied AI: Health care Session I - Part 1
- Lecture 59 - Applied AI: Health care Session I - Part 2
- Lecture 60 - Applied AI: Health care Session II - Part 1
- Lecture 61 - Applied AI: Health care Session II - Part 2