NPTEL Video Course - Computer Science and Engineering - NOC:Foundation of Cloud IoT Edge ML

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Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Introduction to Edge Computing
Lecture 2 - Introduction to Cloud
Lecture 3 - Introduction to IoT Platform
Lecture 4 - Time and Clock Synchronization in IoT
Lecture 5 - Enabling Intelligence at Edge Layer for IoT
Lecture 6 - ML-based Image Classifier at IoT-Edge
Lecture 7 - Introduction to Docker Containers and Kubernetes
Lecture 8 - ML based Predictive Maintenance at IoT Edge
Lecture 9 - Deep Reinforcement Learning for Cloud Edge
Lecture 10 - Deep Reinforcement Learning for Cloud Edge Example
Lecture 11 - Public Cloud Services Case Study of AWS Services
Lecture 12 - Mathematical formulations for task offloading in Edge Cloud
Lecture 13 - Task Offloading Based on LSTM Prediction and Deep Reinforcement Learning
Lecture 14 - Vertical and Horizontal Offloading for Cloud Edge
Lecture 15 - Global State and Snapshot Recording Algorithms
Lecture 16 - Hot Data Analytics for Real Time Streaming in IoT Platform
Lecture 17 - Introduction to MQTT and Kafka in IoT Platform
Lecture 18 - Introduction to Edge Data Center for IoT Platform
Lecture 19 - Design of Key Value Stores for IoT Edge Storage
Lecture 20 - Introduction to Edge ML with AWS IoT platform
Lecture 21 - Introduction to Federated Learning at IoT Edge
Lecture 22 - ML for Autonomous Driving Car

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