NPTEL Video Course - Computer Science and Engineering - NOC:Practical Machine Learning with Tensorflow

Subject Co-ordinator - Dr. B. Ravindran

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Overview of Tensorflow
Lecture 2 - Machine Learning Refresher
Lecture 3 - Steps in Machine Learning Process
Lecture 4 - Loss Functions in Machine Learning
Lecture 5 - Gradient Descent
Lecture 6 - Gradient Descent Variations
Lecture 7 - Model Selection and Evaluation
Lecture 8 - Machine Learning Visualization
Lecture 9 - Deep Learning Refresher
Lecture 10 - Introduction to Tensors
Lecture 11 - Mathematical Foundations of Deep Learning (Continued...)
Lecture 12 - Building Data Pipelines for Tensorflow - Part 1
Lecture 13 - Building Data Pipelines for Tensorflow - Part 2
Lecture 14 - Building Data Pipelines for Tensorflow - Part 3
Lecture 15 - Text Processing with Tensorflow
Lecture 16 - Classify Images
Lecture 17 - Regression
Lecture 18 - Classify Structured Data
Lecture 19 - Text Classification
Lecture 20 - Underfitting and Overfitting
Lecture 21 - Save and Restore Models
Lecture 22 - CNNs - Part 1
Lecture 23 - CNNs - Part 2
Lecture 24 - Transfer learning with pretrained CNNs
Lecture 25 - Transfer learning with TF hub
Lecture 26 - Image classification and visualization
Lecture 27 - Estimator API
Lecture 28 - Logistic Regression
Lecture 29 - Boosted Trees

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Lecture 30 - Introduction to word embeddings
Lecture 31 - Recurrent Neural Networks - Part 1
Lecture 32 - Recurrent Neural Networks - Part 2
Lecture 33 - Time Series Forecasting with RNNs
Lecture 34 - Text Generation with RNNs
Lecture 35 - TensorFlow Customization
Lecture 36 - Customizing tf.keras - Part 1
Lecture 37 - Customizing tf.keras - Part 2
Lecture 38 - TensorFlow Distributed Training
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