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Deep Learning Basics: Introduction and Overview

Deep Learning for Signals Introduction to Deep Learning:

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We use it a lot for deep learning: it ships with MATLAB and it ' s nice to show! The dog ' s name is Sherlock and she

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belongs to a developer at MathWorks. We decided to use this image for the example because we use the same image with occlusion sensitivity and grad-CAM.

New Deep Learning Examples » Deep Learning - MATLAB & Simulink

Use wavelet transforms and a deep learning network within a Simulink (R) model to classify ECG signals. This example uses the pretrained convolutional neural network from the Classify Time Series Using Wavelet Analysis and Deep Learning example of the Wavelet Toolbox™ to classify ECG signals based on images from the CWT of the time series data.

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Example List - MATLAB & Simulink

Learn three approaches to training a deep learning neural network: training from scratch, transfer learning, and semantic segmentation. Download the ebook. Practical Deep Learning Examples with MATLAB - MATLAB & Simulink

Practical Deep Learning Examples with MATLAB - MATLAB ...
An overview of new deep learning features and examples in R2020a, including specifics on signal, audio, reinforcement learning and radar/comms.

Deep Learning Examples: R2020a Edition » Deep Learning ...
Deep Learning in Simulink Using MATLAB Function Block
You can generate optimized code for prediction or

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detection of a variety of trained deep learning networks in your Simulink® models. The MATLAB Function (Simulink) blocks contain code that uses the `coder.loadDeepLearningNetwork` function to load a deep learning model and to construct and set up a CNN class.

Deep Learning in Simulink Using MATLAB Function Block ...
Deep Learning with GPU Coder; Code Generation for a Deep Learning Simulink Model to Classify ECG Signals; On this page; Third-Party Prerequisites; Verify GPU Environment; ECG Data Description; Algorithmic Workflow; ECG Deep Learning Simulink Model; ECG Preprocessing Subsystem; ECG Postprocessing; Run the Simulation; Generate and Build the ...

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Code Generation for a Deep Learning Simulink Model to ...
With just a few lines of MATLAB® code, you can apply deep learning techniques to your work whether you 're designing algorithms, preparing and labeling data, or generating code and deploying to embedded systems.. With MATLAB, you can: Create, modify, and analyze deep learning architectures using apps and visualization tools.; Preprocess data and automate ground-truth labeling of image ...

MATLAB for Deep Learning - MATLAB & Simulink
Get started with MATLAB for deep learning. Resources for Deep Learning with MATLAB. From using a simple web cam to identify objects to training a network in the cloud, these

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resources will help you take advantage of all MATLAB has to offer for deep learning.

Deep Learning Resources - MATLAB & Simulink

For example, to design a highway lane following system, you can use the deep learning blocks to create a Simulink subsystem that performs lane and vehicle detection, integrate this subsystem with a larger Simulink model that includes additional components such as the vehicle dynamics model, the lane following controller, sensor fusion and 3D visualization, and verify performance of the overall design through system-level simulation before deployment.

Deep Learning in Simulink Video - MATLAB

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Use MATLAB and Simulink to implement reinforcement learning based controllers. You can set up environment models, define and train reinforcement learning policies represented by deep neural networks, and deploy the policy to an embedded device.

Reinforcement Learning - MATLAB & Simulink

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Example List - MATLAB & Simulink - MathWorks Deutschland
MATLAB provides tools for specific deep learning applications such as: Visual Inspection and Defect Detection.

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Automated inspection and defect detection are critical for high-throughput quality control in production systems. With MATLAB, you can develop deep learning–based approaches to detect and localize different types of anomalies.

Deep Learning for Computer Vision - MATLAB & Simulink GPU Code Generation. Deep Learning with GPU Coder (GPU Coder). Generate CUDA code for deep learning neural networks. Code Generation for a Deep Learning Simulink Model that Performs Lane and Vehicle Detection (GPU Coder). This example shows how to develop a CUDA® application from a Simulink® model that performs lane and vehicle detection using convolutional neural networks

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(CNN).

Deep Learning Code Generation - MATLAB & Simulink ...
Additionally, two deep learning approaches are illustrated: transfer learning using SqueezeNet and a Long Short-Term Memory (LSTM) recurrent neural network. Note that the data set used in this example does not require advanced techniques but the workflow is described because the techniques can be extended to more complex problems.

Machine Learning and Deep Learning - MATLAB & Simulink

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This example shows how to integrate the CUDA® code generated for a deep learning network into Simulink®.

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Deep Learning Prediction by Using NVIDIA TensorRT This example shows code generation for a deep learning application by using the NVIDIA TensorRT™ library. Deep Learning Prediction by Using Different Batch Sizes

Deep Learning Code Generation - MATLAB & Simulink ...

Get started with MATLAB for deep learning by running this interactive example right in your browser. You can run the example as is, or modify and run the code as many times as you ' d like. Learn how to: Classify an image. Access online images. Investigate and visualize the results. Launch the example.

MATLAB for Deep Learning - MATLAB & Simulink

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The aim of speech denoising is to remove noise from speech signals while enhancing the quality and intelligibility of speech. This example showcases the removal of washing machine noise from speech signals using deep learning networks. The example compares two types of networks applied to the same task: fully connected, and convolutional.

Denoise Speech Using Deep Learning ... - MATLAB & Simulink

With just a few lines of MATLAB® code, you can build deep learning models without having to be an expert. Explore how MATLAB can help you perform deep learning tasks. Easily access the latest models, including GoogLeNet,

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VGG-16, VGG-19, AlexNet, ResNet-50, ResNet-101, and Inception-v3.; Accelerate algorithms on NVIDIA® GPUs, cloud, and datacenter resources without specialized programming.

MATLAB for Deep Learning - MATLAB & Simulink

Load and Explore Image Data. Load the digit sample data as an image datastore. `imageDatastore` automatically labels the images based on folder names and stores the data as an `ImageDatastore` object. An image datastore enables you to store large image data, including data that does not fit in memory, and efficiently read batches of images during training of a convolutional neural network.

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