INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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Keras Course

Basic Overview of Keras

- Understanding the features of Keras
- Advantages of Keras
- Keras Limitations

Keras Installation and API

Installig Keras

- Installation of dependencies
- Installation of Theano
- Installation of TensorFlow
- Installation of Keras
- Testing each Installation

Configuring Keras

- Installation of Keras on Docker
- Installation of Keras on Google Cloud ML
- Installation of Keras on Amazon AWS
- Installation of Keras on Microsoft Azure

Keras API

- Basic Architecture of Keras

- Overview of predefined neural network layers
- Overview of predefined activation functions
- Understanding Losses Functions
- Understanding Metrics
- Some Useful Operations

Overview of Deep Learning with ConvNets

- Deep Convolutional Neural Network
- Understanding Deep Convolutional Neural Network (DCNN)
- Simple Example of DCNN
- Recognizing CIFAR-10 images with DL

Concept of Generative Adversarial Networks and Wavenet

- Overview of GAN
- Keras adversarial GANs for forging MNIST
- Keras adversarial GANs for forging CIFAR
- Understanding WaveNet

Word Embeddings

- Distributed Representations
- Understanding word2vec
- GloVe Exploring functionalities
- Using pre-trained embeddings

Overview of Recurrent Neural Networks RNN

- Basics of SimpleRNN cells
- Understanding RNN Topologies
- Using Gated Recurrent Unit -GRU
- Concept of Bidirectional RNNs
- Vanishing and exploding gradients

- Using Long Short Term Memory -LSTM
- Understanding Stateful RNNs

  Additional Deep Learning Models

- Dealing with Keras Functional API
- Understanding Regression Networks
- Concept of Unsupervised Learning
- Keras Customization scenario
- Using Generative Models