Deep Learning with Keras and TensorFlow

Learning Path

Learning Path

Introduction to Deep Learning: Focuses on the basics of deep learning with a brief history

Deep Neural Network (DNN): Focuses on deep neural network and its uses

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Artificial Neural Network (ANN): Focuses on using the perceptron for binary classification

Learning Path

TensorFlow: Focuses on building models using TensorFlow

Model Optimization and Performance Improvement: Focuses on optimization of models to get the most accurate results

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PyTorch: Focuses on PyTorch, an open-source deep learning framework based on the Torch library

Learning Path

Convolutional Neural Networks (CNN): Focuses on tasks related to object recognition within images

Object Detection: Focuses on object detection and its applications

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Transfer Learning: Focuses on utilizing transfer learning to enhance performance and efficiency

Learning Path

Recurrent Neural Networks (RNN): Focuses on solving problems in language translation and natural language processing (NLP)

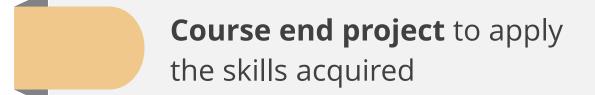**Getting Started with Autoencoders:** Focuses on the fundamentals of Autoencoders

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Transformer Models for NLP: Focuses on transformer models and their architecture

Course Components

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Hands-on exercises to practice the knowledge gained

Course end project to apply the skills acquired

Ebooks to use a quick reference guides

Let's get started!