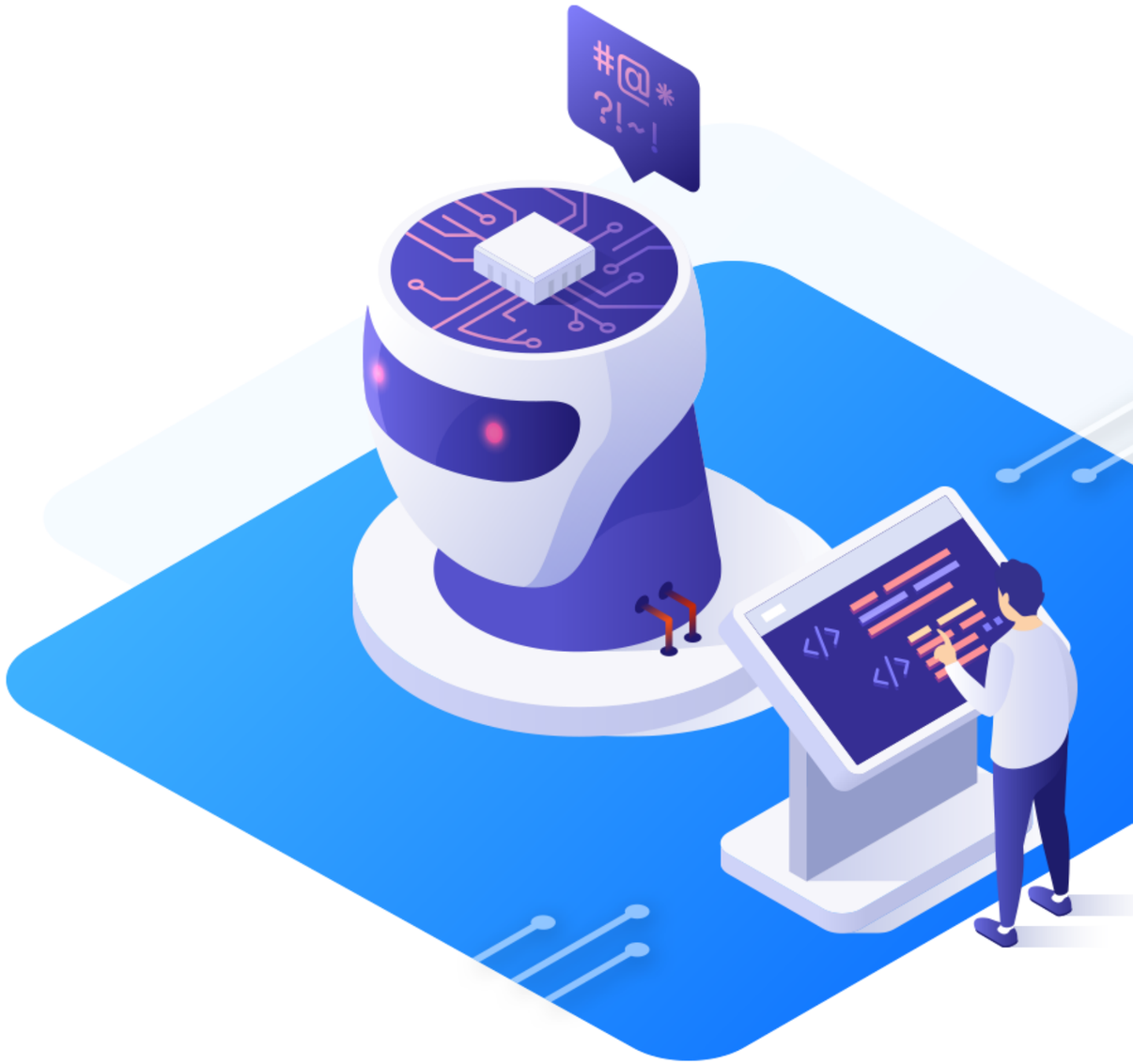
Deep Learning with Keras and TensorFlow



Learning Path

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Course Introduction

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

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

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

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TensorFlow: Focuses on building models using TensorFlow

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

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Convolutional Neural Networks (CNN): Focuses on using deep learning in computer vision

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

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Object Detection: Focuses on object detection and its applications

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

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

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Getting Started with Autoencoders: Focuses on the fundamentals of Autoencoders

PyTorch: Focuses on the optimized Tensor library known as PyTorch

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Course Components

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Hands-on exercises to practice the knowledge gained

Course end project to apply the skills acquired

Spotlight videos to reinforce the concepts learnt

Let's get started!