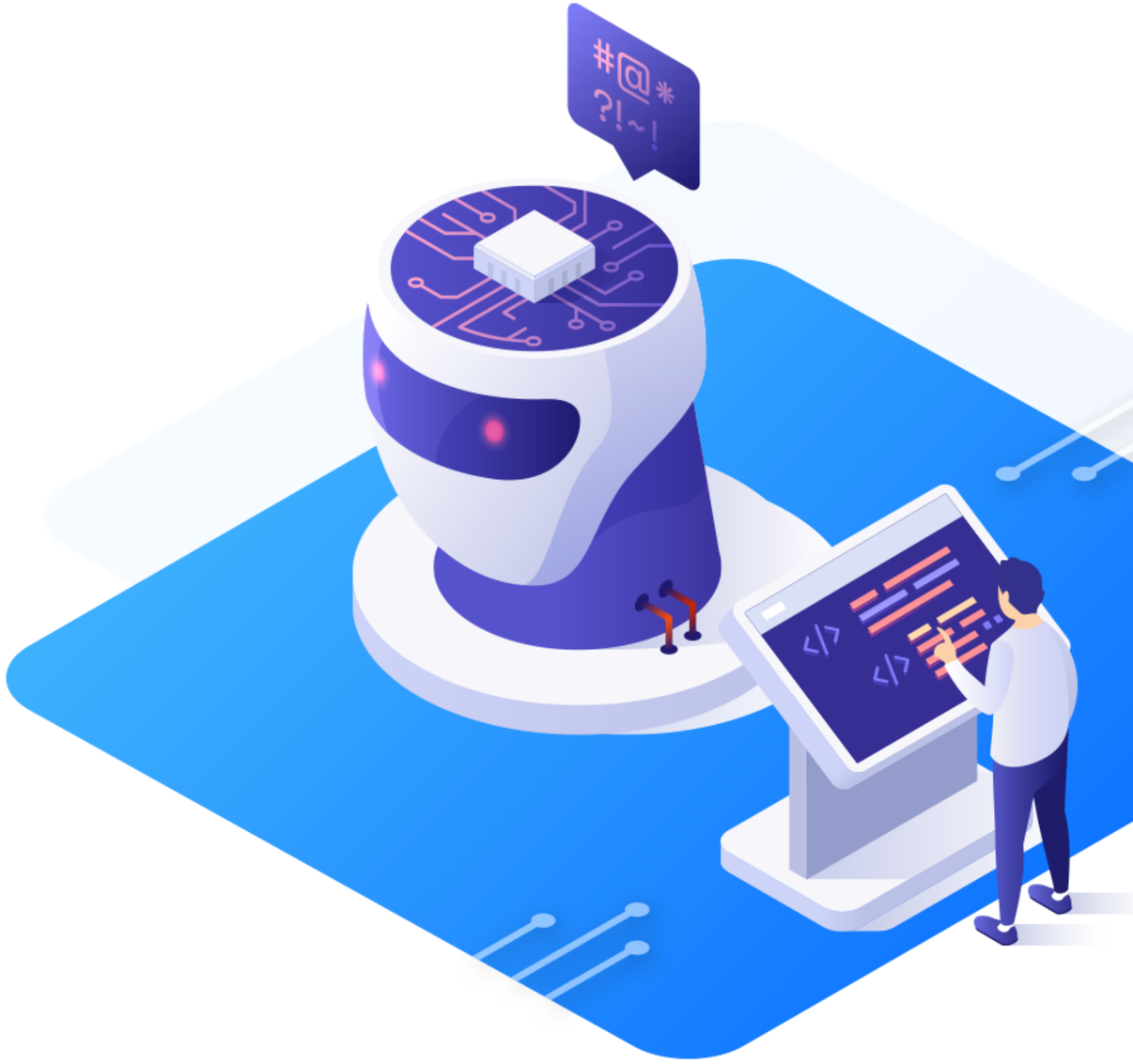
Deep Learning with Keras and TensorFlow



Learning Path

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

1

2

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

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

3

Learning Path

TensorFlow: Focuses on building models using TensorFlow

4

5

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

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

6

Learning Path

7

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

8

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

9

Object Detection: Focuses on object detection and its applications

Learning Path

10

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

11

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

12

Getting Started with Autoencoders: Focuses on the fundamentals of Autoencoders

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!