

HCIP-AI-EI Developer

Online Course

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Course Modules

1. Neural Network Basics

- Deep Learning Basics
- Artificial Neural Network
- Training Neural Network
- Architecture Design of Neural Networks

2. Image Processing Theory and Application

- Computer Vision Overview
- Digital Image Processing Fundamentals
- Image Preprocessing Technologies
- Basic Tasks of Image Processing
- Feature Extraction and Traditional Image Processing Algorithms
- Deep Learning and Convolution Neural Network
- Object detection and object segmentation

3. Speech Processing Theory and Application

- Speech Processing
- Speech Recognition
- Text-to-Speech Synthesis
- Traditional Acoustic Model GMM-HMM
- Hybrid Model DNN-HMM
- Advanced Speech Model



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4. Natural Language Processing Theory and Application

- Introduction to NLP
- Knowledge Required
- Key Tasks
- Applications

5. Huawei's AI Development Strategy & Full-Stack, All-Scenario

- AI: New General-Purpose Technology
- 10 Changes That Will Define the Future
- Huawei's AI Portfolio

6. Overview of ModelArts

- Image Processing Experiment Guide
- Image Data Preprocessing
- HUAWEI CLOUD EI Image Tag Service

7. Speech Processing Experiment Guide

- Speech Pre-processing
- HUAWEI CLOUD EI Text-to-Speech Service
- Speech Recognition Based on Seq2Seq



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8.Natural Language Processing Experiment Guide

- HUAWEI CLOUD EI Natural Language Processing Service
- Text Classification
- Machine Translation

9.Model Arts Lab Guide

- ExeML
- Data Management
- Built-in Algorithms for Deep Learning
- Custom Basic Algorithms for Deep Learning
- Custom Advanced Algorithms for Deep Learning

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in terms of time management,
flexibility, and the ability
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