



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

Skontaktuj się z nami

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Kod: **Czas trwania:** **Cena netto:**

AIC_AT-330 13.36 Hours (1.67 days) zł2,228.00

Description

Innovate Engineering: Leverage AI-Driven Smart Solutions

- Full AI Stack: Learn AI architecture, LLMs, NLP, and neural networks
- Tool Proficiency: Includes Transfer Learning with Hugging Face and GUI design
- Deployment Focus: Build real AI systems and manage communication pipelines
- Practical Mastery: Gain the skills to engineer scalable AI solutions for innovation

Online labs, projects, case studies

- Included: Self-paced course + Official exam + Digital badge
- Delivery: Online labs, projects, case studies
- Outcome: Industry-recognized credential + hands-on experience

The following tools will be explored in this course:

- TensorFlow
- Hugging Face Transformers
- Jenkins
- TensorFlow Hub

What's Included (One-Year Subscription + All Updates):

- High-Quality Videos, E-book (PDF & Audio), and Podcasts
- AI Mentor for Personalized Guidance
- Quizzes, Assessments, and Course Resources
- Online Proctored Exam with One Free Retake
- Comprehensive Exam Study Guide
- Access for Tablet & Phone

Cel szkolenia

- AI Architecture
- Neural Networks
- Large Language Models (LLMs)
- Generative AI
- Natural Language Processing (NLP)
- Transfer Learning using Hugging Face
- AI Deployment Pipelines

Uczestnicy

- **AI & Software Engineers:** Enhance your development skills by mastering AI techniques and designing advanced AI systems.
- **Machine Learning Enthusiasts:** Apply deep learning, neural networks, and NLP techniques to real-world AI challenges.
- **Data Scientists:** Strengthen your AI toolkit with engineering techniques for building and deploying scalable AI solutions.
- **IT Specialists & System Architects:** Integrate AI solutions into existing infrastructures, optimizing performance and scalability.

- **Students & New Graduates:** Develop in-demand AI engineering skills and prepare for a successful career in the rapidly growing AI field.

Wymagania wstępne

- AI+ Data™ or AI+ Developer™ course should be completed
- Basic understanding of Python programming is mandatory for hands-on exercises and project work.
- Familiarity with high school-level algebra and basic statistics is required.
- Understanding basic programming concepts such as variables, functions, loops, and data structures like lists and dictionaries is essential.

Program szkolenia

Course Overview

Course Introduction

Module 1: Foundations of Artificial Intelligence

- 1.1 Introduction to AI
- 1.2 Core Concepts and Techniques in AI
- 1.3 Ethical Considerations

Module 2: Introduction to AI Architecture

- 2.1 Overview of AI and its Various Applications
- 2.2 Introduction to AI Architecture
- 2.3 Understanding the AI Development Lifecycle
- 2.4 Hands-on: Setting up a Basic AI Environment

Module 3: Fundamentals of Neural Networks

- 3.1 Basics of Neural Networks
- 3.2 Activation Functions and Their Role
- 3.3 Backpropagation and Optimization Algorithms
- 3.4 Hands-on: Building a Simple Neural Network Using a Deep Learning Framework

Module 4: Applications of Neural Networks

- 4.1 Introduction to Neural Networks in Image Processing
- 4.2 Neural Networks for Sequential Data
- 4.3 Practical Implementation of Neural Networks

Module 5: Significance of Large Language Models (LLM)

- 5.1 Exploring Large Language Models
- 5.2 Popular Large Language Models
- 5.3 Practical Finetuning of Language Models
- 5.4 Hands-on: Practical Finetuning for Text Classification

Module 6: Application of Generative AI

- 6.1 Introduction to Generative Adversarial Networks (GANs)
- 6.2 Applications of Variational Autoencoders (VAEs)
- 6.3 Generating Realistic Data Using Generative Models
- 6.4 Hands-on: Implementing Generative Models for Image Synthesis

Module 7: Natural Language Processing

- 7.1 NLP in Real-world Scenarios
- 7.2 Attention Mechanisms and Practical Use of Transformers
- 7.3 In-depth Understanding of BERT for Practical NLP Tasks
- 7.4 Hands-on: Building Practical NLP Pipelines with Pretrained Models

Module 8: Transfer Learning with Hugging Face

- 8.1 Overview of Transfer Learning in AI
- 8.2 Transfer Learning Strategies and Techniques
- 8.3 Hands-on: Implementing Transfer Learning with Hugging Face Models for Various Tasks

Module 9: Crafting Sophisticated GUIs for AI Solutions

- 9.1 Overview of GUI-based AI Applications
- 9.2 Web-based Framework

9.3 Desktop Application Framework

Module 10: AI Communication and Deployment Pipeline

10.1 Communicating AI Results Effectively to Non-Technical Stakeholders

10.2 Building a Deployment Pipeline for AI Models

10.3 Developing Prototypes Based on Client Requirements

10.4 Hands-on: Deployment

Optional Module: AI Agents for Engineering

1. Understanding AI Agents

2. Case Studies

3. Hands-On Practice with AI Agents

Rekomendacja kolejnych szkoleń

Recommended Certifications:

- AI+ Developer™
- AI+ Prompt Engineer Level 2™

Test and Certification

Exam Details

- **Duration:** 90 minutes
- **Passing Score:** 70% (35/50)
- **Format:** 50 multiple-choice/multiple-response questions
- **Delivery Method:** Online via proctored exam platform (flexible scheduling)

Exam Blueprint:

- Foundations of Artificial Intelligence - 5%
- Introduction to AI Architecture - 10%
- Fundamentals of Neural Networks - 15%
- Applications of Neural Networks - 7%
- Significance of Large Language Models (LLM) - 8%
- Application of Generative AI - 8%
- Natural Language Processing - 15%
- Transfer Learning with Hugging Face - 15%
- Crafting Sophisticated GUIs for AI Solutions - 10%
- AI Communication and Deployment Pipeline - 7%

Terminy

Data	Lokalizacja	Strefa czasowa	Język	Typ szkolenia	Gwarancja	Cena netto
01 Jan 0001			English	Self Paced Training		zł2,228.00

Dodatkowe informacje

Jeśli interesują Cię inne szkolenia tego producenta - skontaktuj się z nami.