

Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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CODE: LENGTH: PRICE:

AIC AT-320 40 Hours £370.00

Description

Visualize Tomorrow: Neural Networks in Vision

Deep Al Expertise: Covers neural networks, NLP, and computer vision frameworks

Enterprise AI: Learn to design scalable AI systems for real-world impact **Capstone Integration**: Build, test, and deploy advanced AI architectures

Industry Preparedness: Equips you for roles in high-demand Al design domains **Included:** Instructor-led OR 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:

- AutoGluon
- ChatGPT
- SonarCube
- Vertex AI

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

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

Objectives

- Advanced Neural Network Design
- Al Model Evaluation & Performance Metrics
- Generative AI for Architecture
- Al Deployment & Infrastructure
- Machine Learning Optimization Shape

Audience

- Architecture Professionals: Enhance your architectural design skills by integrating Al to create scalable, efficient, and intelligent systems for modern solutions.
- Systems Architects & Engineers: Learn to leverage AI to design and build sophisticated, scalable infrastructures while automating key processes.
- IT Infrastructure Managers: Use AI to optimize architecture planning, streamline infrastructure deployment, and ensure seamless system integration.

- Business Leaders: Drive transformation within your organization by adopting Al-driven architectural solutions to enhance scalability, reduce costs.
- Students & New Graduates: Gain a competitive edge in the tech industry by mastering Al architectural techniques and tools.

Prerequisites

- A foundational knowledge on neural networks, including their optimization and architecture for applications.
- · Ability to evaluate models using various performance metrics to ensure accuracy and reliability.
- Willingness to know about AI infrastructure and deployment processes to implement and maintain AI systems effectively.

Programme

Certification Overview

Course Introduction

Module 1: Fundamentals of Neural Networks

- 1.1 Introduction to Neural Networks
- 1.2 Neural Network Architecture
- 1.3 Hands-on: Implement a Basic Neural Network

Module 2: Neural Network Optimization

- 2.1 Hyperparameter Tuning
- 2.2 Optimization Algorithms
- 2.3 Regularization Techniques
- 2.4 Hands-on: Hyperparameter Tuning and Optimization

Module 3: Neural Network Architectures for NLP

- 3.1 Key NLP Concepts
- 3.2 NLP-Specific Architectures
- 3.3 Hands-on: Implementing an NLP Model

Module 4: Neural Network Architectures for Computer Vision

- 4.1 Key Computer Vision Concepts
- 4.2 Computer Vision-Specific Architectures
- 4.3 Hands-on: Building a Computer Vision Model

Module 5: Model Evaluation and Performance Metrics

- 5.1 Model Evaluation Techniques
- 5.2 Improving Model Performance
- 5.3 Hands-on: Evaluating and Optimizing Al Models

Module 6: Al Infrastructure and Deployment

- 6.1 Infrastructure for AI Development
- 6.2 Deployment Strategies
- 6.3 Hands-on: Deploying an Al Model

Module 7: Al Ethics and Responsible Al Design

- 7.1 Ethical Considerations in Al
- 7.2 Best Practices for Responsible Al Design
- 7.3 Hands-on: Analyzing Ethical Considerations in Al

Module 8: Generative AI Models

8.1 Overview of Generative AI Models

8.2 Generative AI Applications in Various Domains

8.3 Hands-on: Exploring Generative Al Models

Module 9: Research-Based Al Design

9.1 Al Research Techniques

9.2 Cutting-Edge Al Design

9.3 Hands-on: Analyzing Al Research Papers

Module 10: Capstone Project and Course Review

10.1 Capstone Project Presentation

10.2 Course Review and Future Directions

10.3 Hands-on: Capstone Project Development

Optional Module: Al Agents for Architect

- 1. Understanding Al Agents
- 2. Case Studies
- 3. Hands-On Practice with Al Agents

Follow on courses

Al+ Cloud™

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

- Fundamentals of Neural Networks 10%
- Neural Network Optimization 10%
- Neural Network Architectures for NLP 10%
- Neural Network Architectures for Computer Vision 10%
- Model Evaluation and Performance Metrics 10%
- Al Infrastructure and Deployment 10%
- Al Ethics and Responsible Al Design 10%
- Generative Al Models 10%
- Research-Based Al Design 10%
- Capstone Project and Course Review 10%

Session Dates

Date	Location	Time Zone	Language	Туре	Guaranteed	PRICE
01 Jan 0001			English	Self Paced Training		£370.00

Additional Information

This training is also	available as or	nsite training.	Please contac	t us to find out more.
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