

AI+ Architect

Category: AI, Data & Analytics | **Vendor:** AI Certs

Duration: 40.00 hours (5 days)

32.5 CPD Hours

Rating: ★ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Certification: AI+ Architect

Related Exam: AI+ Architect

Course Overview

The AI+ Architect course provides a comprehensive exploration into the realm of neural networks, beginning with foundational principles and advancing to specialized applications. Participants will delve into the basics of neural networks, including their architecture and implementation, and then progress to optimization techniques such as hyperparameter tuning and regularization. The course also covers specific neural network architectures tailored for natural language processing (NLP) and computer vision, with hands-on projects to solidify learning. Beyond technical skills, the course addresses critical aspects of AI infrastructure, deployment strategies, and ethical considerations, ensuring a holistic understanding of AI design and implementation. Students will explore generative AI models and cutting-edge research techniques, culminating in a capstone project that synthesizes their acquired knowledge. This project-based learning approach ensures that participants are well-equipped to tackle real-world AI challenges and contribute to the field's advancement.

About This Course

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Who Should Attend

Technical Architect

Prerequisites & Entry Requirements

General 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.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Course Objectives

- Gain a solid foundation in neural network principles, including architecture, implementation, and optimization techniques such as hyperparameter tuning, regularization, and various optimization algorithms.
- Develop expertise in applying neural network models to specific domains like natural language processing (NLP) and computer vision, through hands-on projects and practical applications.
- Learn to assess model performance using various evaluation techniques, and improve model accuracy and efficiency by implementing advanced optimization strategies.
- Acquire knowledge of the infrastructure required for AI development and deployment, and practice deploying AI models in real-world scenarios.
- Understand ethical considerations in AI design, implement responsible AI practices, and explore generative AI models and contemporary AI research techniques through practical, hands-on activities.

Detailed Course Outline

- Fundamentals of Neural Networks

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

- Neural Network Optimization

Hyperparameter Tuning Optimization Algorithms Regularization Technique Hands-on: Hyperparameter Tuning and Optimization

- Neural Network Architectures for NLP

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

- Neural Network Architectures for Computer Vision

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

- Model Evaluation and Performance Metrics

Model Evaluation Techniques Improving Model Performance Hands-on: Evaluating and Optimizing AI Models

- AI Infrastructure and Deployment

Infrastructure for AI Development Deployment Strategies Hands-on: Deploying an AI Model

- AI Ethics and Responsible AI Design

Ethical Considerations in AI Best Practices for Responsible AI Design Hands-on: Analyzing Ethical Considerations in AI

- Generative AI Models

Overview of Generative AI Models Generative AI Applications in Various Domains Hands-on: Exploring Generative AI Models

- Research-Based AI Design

AI Research Techniques Cutting-Edge AI Design Hands-on: Analyzing AI Research Papers

- Capstone Project and Course Review

Capstone Project Presentation Course Review and Future Directions Hands-on: Capstone Project Development

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, Optional Module: AI Agents for Architect, Fundamentals of Neural Networks, Neural Network Optimization, Neural Network Architectures for NLP, Neural Network Architectures for Computer Vision, Model Evaluation and Performance Metrics, AI Infrastructure and Deployment, AI Ethics and Responsible AI Design, Generative AI Models, Research-Based AI Design, Capstone Project and Course Review

Certification Path

AI+ Architect

Exam: AI+ Architect

Additional Course Details

Nexus Humans AI+ Architect training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward. This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the AI+ Architect course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for AI+ Architect?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
 - Traditional Instructor-Led Classroom Training (ILT)
 - On-site delivery at your offices anywhere in United Kingdom
 - Private dedicated courses customized for your team
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Q: What certification does this course prepare me for?

The AI+ Architect course helps prepare you for the AI+ Architect certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the AI+ Architect official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 5-day AI+ Architect course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the AI+ Architect training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for AI+ Architect?

Yes, we provide corporate training, dedicated training, and closed classes for AI+ Architect. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: AI+ Architect, AI Certs, vILT

Q: Why choose Nexus Human for AI+ Architect?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your AI+ Architect training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

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