

# Hands-On Introduction to Artificial Intelligence, AI Programming & Machine Learning (TTML5503)

**Category:** Developer

**Duration:** 24.00 hours (3 days)

**19.5 CPD Hours**

**Rating:** ★ 4.6 (5,878 reviews)

## Course Information

**Delivery Format:** Instructor Led - Online

## Course Overview

This hands-on, foundational course explores the fast-changing field of artificial intelligence (AI) programming, logic, search, machine learning, and natural language understanding. You will learn current AI / ML methods, tools, and techniques, their application to computational problems, and their contribution to understanding intelligence. You will leave this course with a practical understanding of core skills, methods and algorithms, and be prepared for continued learning in next-level, more advanced follow on courses that dive deeper into specific skillsets or tools.

## About This Course

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## Who Should Attend

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Students attending this class should have a grounding in Enterprise computing. Students attending this course should be familiar with Enterprise IT, have a general (high-level) understanding of systems architecture, as well as some knowledge of the business drivers that might be able to take advantage of applying AI.

# Learning Outcomes

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

This “skills-centric” course is about 50% hands-on lab and 50% lecture, with extensive practical exercises designed to reinforce fundamental skills, concepts and best practices taught throughout the course. Throughout the course students will learn about and explore popular machine learning algorithms, their applicability and limitations; practical application of these methods in a machine learning environment; and practical use cases and limitations of algorithms.

Working in a hands-on lab environment led by our expert instructor, attendees will explore:

Getting Started with Python & Jupyter

Statistics and Probability Refresher, and Python Practice

Matplotlib and Advanced Probability Concepts

Algorithm Overview

Predictive Models

Applied Machine Learning

Recommender Systems

Dealing with Data in the Real World

Machine Learning on Big Data (with Apache Spark)

Testing and Experimental Design

GUIs and REST: Build a UI & REST API for your Models

## Additional Course Details

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Nexus Humans Hands-On Introduction to Artificial Intelligence, AI Programming & Machine Learning (TTML5503) 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 Hands-On Introduction to Artificial Intelligence, AI Programming & Machine Learning (TTML5503) 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

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## **Q: What delivery options are available for Hands-On Introduction to Artificial Intelligence, AI Programming & Machine Learning (TTML5503)?**

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: How many CPD hours does this course provide?**

The 3-day Hands-On Introduction to Artificial Intelligence, AI Programming & Machine Learning (TTML5503) course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

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## **Q: What is the duration of the Hands-On Introduction to Artificial Intelligence, AI Programming & Machine Learning (TTML5503) training?**

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

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## **Q: Do you provide corporate training for Hands-On Introduction to Artificial Intelligence, AI Programming & Machine Learning (TTML5503)?**

Yes, we provide corporate training, dedicated training, and closed classes for Hands-On Introduction to Artificial Intelligence, AI Programming & Machine Learning (TTML5503). 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.

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## Q: Why choose Nexus Human for Hands-On Introduction to Artificial Intelligence, AI Programming & Machine Learning (TTML5503)?

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 Hands-On Introduction to Artificial Intelligence, AI Programming & Machine Learning (TTML5503) 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

✉ Email: [info@nexushuman.com](mailto:info@nexushuman.com)

🌐 Website: [www.nexushuman.com](http://www.nexushuman.com)

☎ Phone: +353 1 XXX XXXX (Ireland) | +44 20 XXXX XXXX (UK)