

An Introduction to A.I and Machine Learning

21st May 2024

ONSITE /ONLINE



COST: The cost for the course will be £295 +VAT (VAT UK ONLY) , this includes course notes and lunches

COURSE MATERIAL

The lecture notes will be sent in advance.

PAYMENT

Payments can be made by cheque (made payable to ASRANet Ltd.), cash or bank transfer. Please enquire for details.

CONTACT

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Venue

The Chaucer Centre
Canterbury Rd
Morden
SM4 6PX

About the course

This one day course, assuming no previous knowledge of the topics, will introduce the fundamental concepts of, and approaches to, Artificial Intelligence (A.I.) and “Machine Learning”. It will start with a brief overview of the history and evolution of A.I., then continue introducing the main methodologies of both “classical” and “modern” A.I. : Rule-Based methods, Search-Based methods, Probability-Based Methods and Neural Networks. We will finish off with an introduction to modern “Deep Learning” methods which are at the heart of many of the latest application of A.I.

Case studies where A.I. methods have been used to solve “real world” problems, including several projects in which the course tutor has been personally involved, will be discussed at appropriate points of the day.

Programme and Timings- 9am -4.30pm BST (GMT+1)

The day will be divided up into two short and three longer session) , as follows :

- 1. Introduction to and brief history of A.I.**
- 2. “Classical” A.I. – Rule and Search-based Methods**
- 3. “Modern” A.I. (Machine Learning) Part i – Neural Networks**
- 4. “Modern” A.I. (Machine Learning) Part ii Probabilistic (Bayesian) Methods and Decision Trees**
- 5. Modern A.I. Part iii – “Deep” Neural Networks**

Who Should Attend

No previous knowledge of A.I. will be assumed, but attendees will be expected to have an elementary familiarity with I.T. systems and with basic Mathematics and Statistics at a level normally covered in most Engineering and Science degrees and HNDs.

The Tutor : Dr. Gordon Hunter is Associate Professor of Computer Science and Mathematics at Kingston University, and is Course Director for their BSc in Computer Science and Artificial Intelligence. He has worked on many projects applying A.I. methods to problems in Healthcare, Ecology and Sports Analytics, and has over 30 years experience of teaching Mathematics, Physics and Computer Science topics to specialist and non-specialist students from Foundation to Masters Degree level. He is a Fellow of the Institute of Mathematics and its Applications (FIMA) and a Member of both the Institution of Engineering and Technology (MIET) and the Institute of Acoustics (MIOA).

