Topics

Time	Agenda
Day 1	
09:00 – 09:15	2-Day Course Overview
09:15 – 10:45	"Say 'Hello' to Artificial Intelligence (AI)": • A brief history of AI • What is AI, machine learning and deep learning? • Is AI a mathematical or technical discipline? • Where does AI fit in the broader technology landscape? • How do Google, Facebook and Uber use AI?
10:45 – 11:00	Break
11:00 – 12:00	Analysis: • How does AI work? • The AI process – from raw data to deployed service • AI, ethics and the law • Explainable AI (XAI) • Hands on – build a Machine Learning experiment
12:00 – 13:00	Big and Small Data and AI: • Learning from data • Data formats • Preparing data • How Machine Learning uses data • Managing Data Pipelines
13:00 – 14:00	Lunch
14:00 – 15:30	Machine Learning Models, and How to Select Them: • Regression • Classification • Anomaly detection • Clustering • Hands-on, build a classification experiment
15:30 – 15:45	Break
15:45 – 17:30	Applications of Machine Learning: • Natural Language Processing • Image and sound processing • Recommendation engines • AI in Robotics and Autonomous Vehicles • Deploying AI as a service

Day 2	
09:00 – 09:15	Overview of the Day
09:15 – 10:45	Applying AI in Finance: • AI across the Customer Lifecycle • Predicting values, optimal pricing, rates and market movements • Managing risk, security, and underwriting • Portfolio development and fund management • Hands-on, build and deploy a chatbot
10:45 – 11:00	Break
11:00 – 13:00	Implementing AI: • Human, technical and business capacity development • IT Infrastructure for AI – options for different approaches • Delivering an AI solution • Building an AI orientated culture and organisation • Skills for AI
13:00 – 14:00	Lunch
14:00 – 17:00	Plan a new financial product: • Develop ideas and plans for a new financial product that leverages AI • Present your plan to the group • Scoring and feedback
17:00 – 17:30	Assessment

Requirements

- Attendees should have an interest in artificial intelligence and statistics
- Attendees have to bring along their own laptop – a Windows or Mac PC preconfigured for hands-on activities (instructions will be sent prior to the workshop)
- Powerpoint slides of course material will be provided

Duration: 2 days

Venue: To be confirmed

Minimum number to run: 25 participants

Trainer's Profile

After a long and successful career at Microsoft, Mike Lloyd founded `learn-tech.io`, a company dedicated to democratising Deep Tech, and helping people develop technical, scientific, mathematics, engineering and business knowledge and skills. `learn-tech.io` now has customers for its products and services in UK, Singapore, China and Australia.

Mike started his career in automotive engineering, taught Technology at the Open University, then worked at Microsoft for 13 years before founding his current business. His experience spans the full spectrum of technology - from AI to Zero Emissions solutions.

`learn-tech.io` provides custom Deep Tech learning and technology solutions to organisations such as Pearson, Intel, Microsoft, ARM, BBC, Bankers Lab, Singapore Science Centre, RM Plc, Box Hill Institute, Burges Salmon, and Nord Anglia Plc.

The `learn-tech.io` organisation includes partners in Asia, and "Deep Tech Task Force" - a team of interns focussed on simplifying a wide range of aspects of Deep Tech from Neural Networks, to FinTech, to Law and Public Policy.

Mike is the author of the "AI Demystified", "AI for Retail Banking", and "Machine Learning Maths and Modelling" courses. He has delivered keynote speeches across the world on a range of technology related subjects, and has worked at senior level in over 30 countries.