Agentic AI Primer

Course Objectives

'Agentic AI' is promoted as the next step in digital transformation of work, life, and learning. Such systems are often based on the hugely popular and successful GenAI and Large Language Models (LLM). However, due to their reliance on other technologies, automated communication and coordination, and in certain cases delegated actions, they bring their own set of new, pressing and peculiar risks and threats to security, identity management, privacy and data protection. This course provides a solid basis on the topic and technological foundations of agentic AI for non-technical audience; it brings clarity, context, and meaning to the plethora of recent local and international guidelines and discussion papers. This comprehensive overview is critical for audience in charge of governance, strategies, and decision making around agentic AI, who need to go beyond the flashy headlines to apply careful thought about introducing or allowing such new, pervasive, and invasive technology.

This course complements our What to look out for when procuring an AI Solution - Legal and Technology Essentials course and our Deep Learning Essentials course. It provides the foundation for our Agentic AI Risk Assessment course / workshop.
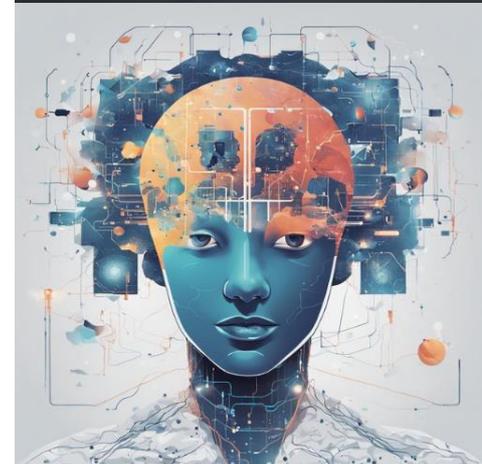
Who should attend?

- Privacy / Software Engineers, Technical Staff, Developers, Data Analysts, Data Architects, and Project / Risk Managers
- Data Protection Officers (DPOs), Compliance Professionals
- Executives, Managers, and Staff involved in the management, collection, use or other processing of personal data

Course Details

Course Code: AI103

Title: Agentic AI Primer

Duration: ½ day (approximately 3.5 contact hours)

Mode of Training: In-person

Venue: Drew & Napier LLC

                     10 Collyer Quay, 10th Floor, Ocean Financial Centre

                     Singapore 049315

Course Fee: S$300.00 (excluding GST)

To view available dates and register for this course, please click here. You may also register for this course and view similar courses on our course schedule page (www.drewnapier.com/Academy/Course-Schedule-Ors).

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Visit us at: www.drewnapier.com/Data-Protection-Cybersecurity-Academy

Course Outline

- **Key terms**
  - Agent
  - Artificial Intelligence (AI), Machine Learning (ML), Model
  - AI Agent, agentic AI, agentic AI system
  - Inference, Reasoning, Computation
  - GenAI, LLM, 'next word prediction', prompting, Chain-of-Thought, ReAct

- **Basic architectures**
  - AI agent components
  - Agent 'action and communication'
  - Single Agent versus Multi-Agent
  - Work and data flow
  - Automation and Autonomy in view of Identity Management, Authentication & Authorisation

- **Technology and Governance**
  - Risks
  - Threat Models
  - Example: Agentic Risk & Capability Framework (ARC)

- **Overview on Guidelines and References**
  - IMDA *Model AI Governance Framework for Agentic AI*
  - CSA *Securing Agentic AI*
  - WEF *AI Agents in Action: Foundations for Evaluation and Governance*
  - OWASP and others

Course Facilitator

Albert Pichlmaier is Senior Learning Technology Designer with Drew Academy and concurrently Senior Cybersecurity & Privacy Engineer with Drew & Napier's Data Protection, Privacy & Cybersecurity practice. He holds a degree in Computer Science from a German tertiary institution. He is a Certified Information Systems Security Professional (CISSP), a Certified Data Privacy Solutions Engineer (CDPSE), a Certified Artificial Intelligence Governance Professional (AIGP), holder of the Singapore WSQ Advanced Certificate in Learning and Performance (ACLP), and a certified Blockchain Developer. Albert is credited as an inventor of two patents granted in Germany and other countries. His technical expertise covers a wide-ranging area of matters involving Cybersecurity, Privacy Engineering, Cryptography, Quantum Computing, Artificial Intelligence / Machine Learning, Blockchain Development, Data Analytics, Big Data, and Data Visualisation. For the courses and webinars under the Drew Academy, he draws from this pool of knowledge and experience to explain technical content to non-technical audiences, develop proof-of-concept and learning tools, and engage with experts on finer details. Albert is officially recognised on the Lexology Index (previously Who's Who Legal) 2025: Recommended (Data - Data Experts, Southeast Asia - Data Experts) and Highly Recommended (Client Choice - Data - Data Experts).

Albert was formerly an Executive Manager with the Personal Data Protection Commission (PDPC), where he was involved in technology assessments for data breach investigations, research into trending / disruptive technologies and advising on technical aspects of various PDPC guidelines and publications (amongst other matters). Prior to his role with the PDPC, Albert worked in technology-related organisations in the private and public sector in Germany, Spain, and Singapore. He was also a technopreneur, having set up a company to provide testing tools for embedded systems and smartcard applications.

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