

Introduction to AI for Public Health Practice

Satellite Workshop

This satellite workshop combines hands-on tool use with evidence-informed perspectives on AI deployment and evaluation. It is designed to be immediately useful for practitioners, while also connecting to ongoing research and system level considerations.

Time	Session	Content	Presented by
8:30am - 9:00am	Arrival tea and coffee		
9:00am - 9:30am	Introduction	AI in public health What is AI? Overview of AI, machine learning, and generative AI Understanding Large Language Models (LLMs) Key concepts and terminology: - Models, training data, prompts, tokens, context windows - APIs and how AI tools connect to other software - Open-source vs proprietary (closed) models Hallucinations, bias, privacy, security, and governance considerations Current AI landscape in government and healthcare settings	Amalie Dyda
9:30am - 10:30am	Practical AI tools and prompting	MS Copilot ChatGPT enterprise edition for gov – limitations, how to set up defaults, best use cases Prompting for editing Prompting for coding Prompting for infographic content Summarising research Basic evaluations and checks Show and tell by staff with applied working examples	Craig Dalton
10:30am - 10:45am	Morning tea		

Time	Session	Content	Presented by
10:45am - 11:45am	Advanced Applications	Understanding models, tools, harnesses, skill.md files What can agents do for your public health department (knowledge management, literature monitoring, workflows, training and onboarding staff) Data exploration	Craig Dalton
11:45am - 12:30pm	AI in Research & Surveillance	Case studies of AI in surveillance and interventions	Amalie Dyda
12:30pm - 1:15pm	Lunch		
1:15pm - 1:45pm	Evaluating AI	Evaluating AI: Effectiveness, Safety and Responsible Use AI evaluation: • Accuracy and reliability • Usability and user experience • Safety and risk management • Fairness, equity and bias • Transparency and explainability AI limitations: • Hallucinations and misinformation • Data quality and model limitations • Generalisability Regulation and governance: • Australian and international approaches to AI governance • Healthcare and public sector • Privacy, security and ethics Evaluation frameworks for digital health and AI: • Introduction to RE-AIM • Applying evaluation frameworks to real-world AI tools Critical appraisal of AI systems	Amalie Dyda
1:45pm - 2:45pm	Building LLM Agents	Agent concepts, demonstration, and guided design activity	Jovenal Gama-Pinto
2:45pm - 3:00pm	Wrap-Up	Key takeaways and next steps	Craig Dalton/ Amalie Dyda