

Introduction to AI for Public Health Practice

Pre-Conference AI Introduction Workshop

This pre-conference 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 models	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	Craig Dalton

		What can agents do for your public health department (knowledge management, literature monitoring, workflows, training and onboarding staff) Data exploration	
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 Evaluation frameworks for digital health and AI	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