

intelliHQ

REDI DEVELOPING AUSTRALIA'S
MTP SECTOR
WORKFORCE
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AI in Healthcare Training Program Executive Masterclasses



Delivered in partnership



Learning partner



Overview

Online content

- Self-paced
- 12 x 1 hour sessions
- 21st July- 15th October

In person 2-day masterclasses

- Gold Coast, AU
- Virtual attendance supported
- 21st-22nd July

Cost 250 aud (in person) \$125 aud (virtual only)

Fellows of the Royal Australasian College of Physicians (RACP) can claim 15 hours of CPD credits for this activity in MyCPD.

Course objectives

At the end of the course participants will...

- Understand the benefits and risks of implementing big data capture and AI in their organisations
- Be able to conduct a high-level assessment of AI technology suitability for their organisation

Course highlights

- Overview of big data and AI basics and terminology
- AI in healthcare: demonstrated benefits
- Risks of AI in Healthcare
- Optimising operations using big data and AI
- AI enabled business models
- Australian regulation and policies on AI in health and research

Featured speakers

- Dr Leo Celi - Clinical Research Director, Laboratory of Computational Physiology, Massachusetts Institute of Technology, Associate Professor of Medicine, Harvard Medical School
- Prof Keith McNeil - Assistant Deputy Director General and CCIO, Queensland Health
- Dr Catriona Wallace - Executive Director, The Gradient Institute, Non-Executive Director, Garvan Institute of Medical Research
- Dr Katherine Heller - Research Scientist, Google Postdoctoral Fellow, Brain and Cognitive Sciences, Massachusetts Institute of Technology

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In-person Masterclasses

Location: The Island Resort, Gold Coast

Take the opportunity to learn with your peers at this exciting in-person event. For two days on the Gold Coast you will learn from experts in Healthcare and AI and learn with your peers in this closed-group event exclusively for healthcare executives.

Thursday 21st July 2022

Time	Event	Description	Delivered by
8.00 am	Registration opens	Light breakfast and participant meet	
9.00am	Keynote presentation: Translation of AI into Healthcare in industry	This keynote session with Leo Celi will provide an introduction to AI in Healthcare and the trailblazing work in the translation of AI in healthcare that Leo and his team at MIT are doing. The session will include 20 min Q&A .	Dr Leo Anthony Celi, Clinical Research Director, MIT
10:00 am	Why AI? What do we mean when we say AI?	Some powerful examples of what AI can do for the healthcare system, what does it mean for a hospital, surgery, private health facility etc. Where is it currently being used? Why is it important to implement AI to remain a world-leading healthcare system?	TBA
10:45 am	Working morning tea		
11:15 am	AI Primer	An interactive introduction to the operation and oversight of AI systems with a focus on the responsible use of AI.	Lachlan McCalman, The Gradient Institute
12.30pm	Lunch		

<p>1:30 pm</p>	<p>Risk Management and Responsible AI Implementation (ethics)</p>	<p>Participants will gain an understanding of key challenges in building ethical AI systems from a leadership perspective. Consideration of the responsibilities that leaders have for determining trade-offs between ethical and other objectives and for creating a culture of rigour and accountability around the design, use and monitoring of AI decision-making systems.</p>	<p>Dr Catriona Wallace Executive Director, The Gradient Institute</p>
<p>2.15 pm</p>	<p>How do we manage our clinical data for AI? Legislation and regulation.</p>	<p>In this workshop participants will work in groups to provide a data sharing strategy for a case study where data needs to be shared internally and externally for the development of AI. Current data privacy legislation and healthcare approval pathways and data custodianship will be discussed in this context.</p>	<p>Dr Peter Leonard, Director, Data Synergies</p>
<p>3:00 pm</p>	<p>Working afternoon tea</p>		
<p>3.45 pm</p>	<p>Business Models for AI in Healthcare</p>	<p>This workshop will examine how big data analytics and AI can enable transformation in the healthcare business model creating greater efficiencies and significant cost savings.</p>	<p>Mark Luhovy</p>
<p>4.15 pm</p>	<p>Session close</p>		
<p>5.30 pm</p>	<p>Networking Cocktails & Canapés</p>		
<p>6:00-9:00 pm</p>	<p>AWS sponsored dinner and networkng</p>		

In-person Masterclasses

Friday 22nd July 2022

Time	Event	Description	Delivered by
8.00 am	Breakfast panel	A panel of experienced leaders in translational AI for healthcare discuss real case studies, in which AI has failed to be implemented in healthcare, pitfalls to avoid and strategies to learn from.	Host: Mark Lyuhovy. Panellists- Judy Wawira, Dr Katherine Heller, Google, Dr Mona Flores
9.00am	Keynote presentation: How the Australian healthcare system can benefit from big data analytics and AI	Prof Keith McNeil, Deputy Director General of Queensland Health will set the scene of where the current Australian Healthcare System is where it comes to big data analytics and healthcare and share his vision for an enhanced healthcare system through the implementation of big data analytics and AI enabled technologies.	Prof Keith McNeil, Deputy Director General (or other nominated delegate) Queensland Health
9.30am	Against your own framework		TBA
10:00 am	Working morning tea		
10:30 am	Efficient and effective implementation: IT strategy	Participants will work on how to manage IT teams for effective deployment of responsible AI models for healthcare.	Joanne Curry

<p>11:15 am</p>	<p>AI and strategy</p>	<p>Participants will work through examples on how to design and develop governance, organisational design, policies, processes, coding, monitoring, audit, reporting and review for Responsible AI.</p>	<p>Lachlan McCalman, The Gradient Institute</p>
<p>12:00pm</p>	<p>Lunch/assessment</p>		
<p>1:30 pm</p>	<p>Diversity and cultural awareness- Indigenous Healthcare</p>	<p>How AI can be used to solve challenges unique to the indigenous communities in Australia. What challenges do they face and how can we work as a system to address them?</p>	<p>Associate Prof Megan Williams</p>
<p>2:30 pm</p>	<p>Panel discussion: Working in industry, procurement and process</p>	<p>How can leaders support the implementation of AI in the healthcare system moving forward? Participants will workshop challenges in their organisation to improving systems for big data capture, analysis and implementation of AI and discuss ways to mitigate these challenges.</p>	<p>Dr Tam Nguyen, + Panel Discussion Q&A</p>
<p>3.30 pm</p>	<p>Closing remarks & conclusion of event</p>		
<p>3.30 pm</p>	<p>Afternoon tea on the go</p>		

Online content

To complete between 21st July - 15th October 2022

Self-paced learning time allocated (approx)	Course title	Learning objectives
1 hr	Keynote presentation: How the Australian healthcare system can benefit from big data analytics and AI	Prof Keith McNeil, Deputy Director General of Queensland Health will set the scene of where the current Australian Healthcare System is where it comes to big data analytics and healthcare and share his vision for an enhanced healthcare system through the implementation of big data analytics and AI enabled technologies.
1 hr	Introduction to AI: Definitions and Terminology	Introduction to and overview of common terms used in big data analytics and AI.
1 hr	Current State of the Art	Introduction to and overview of common terms used in big data analytics and AI.
1 hr	Big data and AI in Healthcare Organisations	How and where is big data analytics and AI being used in healthcare organisations?
1 hr	Big data and AI in Clinical Medicine	How can big data and AI be used to support clinicians and improve patient outcomes?
1 hr	Digital Health and AI	AI as a medical device: what does that mean and what does it look like to use this technology in a healthcare context?
1 hr	Big data and AI in the Life Sciences	What can we do with the big data that is captured in life science research and how can AI help us translate this research to solve real world problems?

1 hr	Big data and AI in Global Health Systems	How can governance, health care financing, and human resources for health impacted by AI?
1 hr	Business Models for AI in Healthcare	Big data capture and AI can create financial value and significant cost recovery in healthcare. How do we factor this into an existing business model?
1 hr	Big Data and AI to enhance integrated healthcare systems	How can big data and AI tools be leveraged to enhance integrated healthcare systems?
1 hr	AI Implementation regulatory requirements	What does the regulation say about using AI in the healthcare system?
1 hr	Where to from here?	Summary of course takeaways and discussion on the future of AI in healthcare.

Total hours: 12