



AI FOR HEALTHCARE PROFESSIONALS

Programme Overview

The AI for Healthcare Professionals programme is an applied, practice-oriented introduction to how data, analytics and artificial intelligence can support safer, more efficient and more patient-centred care. It is designed for professionals who work with patients, manage services, or support digital and data initiatives, and who need an understanding of what AI can realistically do in healthcare and how to use it.

Over eight online sessions, participants move from core concepts in healthcare data and basic analytics to concrete AI applications that enhance day-to-day clinical practice and healthcare service delivery. The programme explores common challenges such as fragmented and legacy systems, variable data quality, and the difficulty of embedding new tools into existing routines and introduces practical ways to address these issues so that AI projects generate visible value.

Throughout, the focus is on real healthcare use cases: prioritising patients on waiting lists, supporting clinical decisions, coordinating care across settings, streamlining documentation, and improving reporting and planning. Participants will work with frameworks they can take back to their own organisations to identify promising opportunities, assess readiness, and plan experiments with AI and analytics. By the end of the programme, they will be equipped to contribute confidently to AI discussions, shape local initiatives, and help ensure that AI innovation translates into better outcomes and more patient-centric services.

Programme Director



Dr. Ayushi Tandon
Assistant Professor, Trinity Business School

Her work focuses on the application of AI and digital technologies in healthcare, with an emphasis on improving patient outcomes, user engagement, and service delivery. She brings a strong combination of academic expertise and industry experience, having previously worked as an engineer at Qualcomm.

Online Module Structure

Session 1	The Healthcare AI Blueprint – From Data Fundamentals to Decision-Making using descriptive and predictive analytics
Session 2	Mapping the Patient Journey – Identifying Workflow Friction and AI Opportunities in prediction to prescription
Session 3	Implementation Across Healthcare Professional Roles
Session 4	Integration Challenge – Overcoming Legacy Systems and Embedding AI into Routine
Session 5	Advanced AI Applications in Healthcare – Chatbots, LLMs, GenAI
Session 6	Assessing Organizational Readiness and Planning Your AI Pilot
Session 7	Measuring Value of AI – KPIs and impact
Session 8	Scaling AI Initiatives, and Programme Synthesis



Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
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Trinity Executive Education
Trinity Business School

OUR MISSION

At the heart of our approach is our commitment to “**Transform Business for Good**” - good for performance & profit, good for careers & advancement, but also good for people & community and good for our planet.

We know enhanced performance, sustainability and respect for people are not mutually exclusive.

We work with organisations to develop their people, better serve their customers, create real organisational change and drive performance.

We work with professionals to empower their careers and refine their leadership.

We work with individuals and organisations to lead with purpose.

Our mission is to empower you to **Lead Different.**

If you have any questions about our programmes, please contact Jane Flanagan, Recruitment Manager at jane.flanagan@tcd.ie or +353 1 8964665

