

MSc in Applied AI for Medicine

Program Title	MSc in Applied AI for Medicine
Short Alias	Applied AI in Medicine
Stacked Pathway	Postgraduate Certificate 12 Cr -> Postgraduate Diploma 24 Cr -> Master of Science 30 Cr
Mode of Study	100% online - asynchronous-first with structured synchronous academic engagement and documented LMS interaction
Program Orientation	Academic / Professional

What is this master's?

This is a modern master's program designed to connect medicine, clinical data, and applied artificial intelligence in a coherent academic pathway. It prepares learners to translate clinical and population-health questions into safe, measurable, and context-aware AI-enabled solutions while building strength in interoperability, applied statistics, causal inference, and decision-support evaluation.

Why is this program important now?

Healthcare systems increasingly need professionals who can understand both medicine and advanced analytics. As AI adoption accelerates across hospitals, digital health services, quality systems, and decision-support environments, there is growing demand for graduates who can evaluate models responsibly, interpret outputs critically, and guide safe implementation rather than rely on technology uncritically.





What makes it modern, distinctive, and innovative?

The program stands out because it does not teach AI as a generic technical field detached from practice. Instead, it places AI directly within clinical and health-system use, combining standards, interoperability, prediction, causal reasoning, governance, fairness, privacy, and human oversight. Its stackable structure, online delivery model, and emphasis on responsible deployment make it especially relevant to the next generation of health-sector leadership.

Market relevance and career value

The program aligns closely with current and emerging workforce needs in digital health, clinical analytics, AI governance, decision-support evaluation, healthcare innovation, and quality improvement. It supports career progression in hospitals, health technology companies, public-health analytics teams, innovation units, clinical transformation initiatives, and institutions seeking safer and more accountable AI-enabled healthcare services.

Stacked pathway and awards

- Postgraduate Certificate (PG Certificate): 12 credit hours.
- Postgraduate Diploma (PG Diploma): 24 credit hours in total.
- Master of Science (MSc): 30 credit hours in total.

The program follows a flexible stacked-award model that allows learners to progress through connected qualifications step by step. This structure gives students recognized milestone awards, supports working professionals, and provides a clear academic route toward the full master's degree.

Credits and duration

- PG Certificate: approximately 8 months.
- PG Diploma: 12 months in total, including the certificate stage.
- Master's degree: 24 months in total, including the previous stages.

Learning model

The program is delivered through an advanced online model that combines asynchronous learning with structured synchronous academic engagement. Students benefit from guided digital learning activities, regular faculty feedback, and organized academic support that preserves flexibility while maintaining rigor and accountability.



+12023611386



info@usmetaareesuniversity.com



www.usmetaareesuniversity.com



- Asynchronous-first online study through the university LMS.
- Structured synchronous academic support where appropriate.
- Documented interaction, feedback, and learning activity tracking.

Simulation and digital learning technologies

Applied learning is supported through digital environments, data exercises, scenario-based tasks, and practical activities focused on healthcare data standards, model evaluation, interoperability, and AI governance. Where appropriate, simulation-based exercises and interactive demonstrations may be used to strengthen professional readiness and real-world understanding.

Program orientation

The program is positioned as both academic and professional in orientation. It gives students a rigorous scientific foundation while also developing applied capabilities relevant to digital transformation in healthcare. Institutionally, it may be presented as both an academic master's and a professional master's depending on the final project pathway.

What will graduates gain?

- Advanced understanding of AI in medicine within a safe and responsible framework.
- The ability to connect standards, data pipelines, analytics, and clinically meaningful decision support.
- Practical competence in evaluation, governance, fairness, privacy, and post-deployment monitoring.
- Readiness for leadership or specialist roles in digital health, medical innovation, and AI-enabled healthcare transformation.

Who can apply?

The program is intended for applicants with suitable academic preparation in health, medicine, or healthcare-relevant technical fields. Priority is typically given to applicants from medicine, health sciences, health informatics, digital health, nursing, pharmacy, public health, biomedical engineering, and other closely related backgrounds.



+12023611386



info@usmetaareesuniversity.com



www.usmetaareesuniversity.com



Admissions and academic fit notes

- Relevant interdisciplinary or technical backgrounds may also be considered following academic review.
- Admissions suitability is evaluated in relation to prior preparation, program fit, and readiness for postgraduate study.
- Some applicants may require additional academic review before final admission.



+12023611386



info@usmetaaresuniversity.com



www.usmetaaresuniversity.com