

MSc in AI & Data Science in Public Health

Field	Detail
Program Title	MSc in AI & Data Science in Public Health
Institution	US MetaArees International University – College of Health and Medical Services
Program Orientation	Academic Master's / Professional Master's
Stacked Structure	PG Certificate 12 Cr → PG Diploma 24 Cr → Master's 30 Cr
Mode of Study	Online learning combining synchronous and asynchronous engagement
Applied Support	Simulation-supported learning, structured applied training, dashboard rehearsal, scenario-based oral defense, and advanced technologies where appropriate
Language of Instruction	English
Target Backgrounds	Relevant public health, epidemiology, biostatistics, health informatics, medicine, nursing, allied health, or related health-science backgrounds

Program Overview

The MSc in AI & Data Science in Public Health is an advanced postgraduate program that prepares learners to translate AI-enabled analytics into practical, ethical, and measurable public-health action. It combines data science, surveillance analytics, governance, equity-aware decision-making, and operational improvement within one coherent master's structure designed for contemporary public-health environments.





Why is this program modern?

Public-health systems increasingly need professionals who can move beyond data reporting toward responsible implementation, risk detection, equity-aware intervention, and measurable service improvement. This program responds to that demand by preparing graduates for a modern landscape shaped by AI, analytics, governance requirements, digital public-health transformation, and evidence-based operational decision-making.

What Makes This Program Distinctive

This program is distinctive because it does not present AI and data science as isolated technical disciplines, nor does it separate analytics from real public-health operations. Instead, it brings together surveillance, cohort stratification, outreach design, dashboard logic, governance, incident learning, and outcome-focused improvement within one academically coherent and future-facing master's pathway.

Career and Market Relevance

Graduates may strengthen their readiness for advanced roles linked to public-health analytics, digital public-health operations, program evaluation, governance and compliance, quality and safety improvement, and evidence-based leadership across agencies, NGOs, integrated health systems, and population-health initiatives. The program is especially relevant to environments seeking professionals who can connect analytics with equitable operational action.

Award Structure and Credit Hours

The program follows a flexible stacked-award structure that allows staged academic progression through recognized postgraduate milestones.

- Postgraduate Certificate: 12 credit hours
- Postgraduate Diploma: 24 credit hours in total
- Master's Degree: 30 credit hours in total
- Final pathways: Academic Master's (Thesis) or Professional Master's (Capstone)



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The Value of the Stacked Pathway

The stacked model allows students to progress step by step through academically connected qualifications. This gives learners recognized milestone awards, supports flexibility for working professionals, and creates a clear progression route toward the full master's degree without reducing the value of each completed stage.

Learning Model and Educational Experience

The program is delivered through an advanced online model that combines asynchronous learning with structured synchronous academic engagement. Students benefit from guided self-paced study, project-centered learning, regular faculty feedback, scenario-based discussion, and live or recorded academic support where appropriate.

Simulation and Advanced Educational Technologies

The learning experience is supported by applied and simulation-informed educational methods such as structured scenario rehearsal, dashboard interpretation exercises, operational planning tasks, structured oral defenses, and, where appropriate, immersive or digitally supported tools that strengthen real-world decision readiness in public-health settings.

Program Orientation

The program can be presented with both academic and professional orientation, allowing students to complete either an academic route based on a thesis or a professional route based on an applied capstone, in line with the approved program structure and university policies.

What Students Learn

Students develop advanced understanding in AI and analytics for public health, surveillance logic, cohort stratification, outreach design, governance and compliance, KPI dashboards, bias and drift monitoring, incident learning, and research or capstone development aligned to measurable population outcomes.



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What Graduates Gain

- Advanced academic and professional grounding in AI and data science for public-health contexts.
- Stronger ability to translate surveillance and analytics into operational, equitable, and auditable public-health action.
- Practical understanding of governance systems, KPI dashboards, incident learning, and performance improvement.
- Meaningful exposure to simulation-supported and scenario-based learning methods relevant to modern public-health operations.
- Preparation for further academic progression and professionally oriented postgraduate development.

Who Can Apply

This program is intended for applicants whose prior academic background provides an appropriate foundation for advanced study in public health, analytics, and digital health-related environments. Priority is typically given to bachelor's degree holders in the same discipline or in closely related fields, while selected interdisciplinary or relevant scientific backgrounds may also be considered based on academic fit.

- Public health
- Epidemiology
- Biostatistics
- Health informatics
- Medicine
- Nursing
- Allied health
- Other relevant health or science backgrounds subject to academic review



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Admission Suitability

Because this is an advanced postgraduate program, admission suitability is evaluated not only on the basis of holding a bachelor's degree, but also on the relevance of the applicant's previous academic preparation, disciplinary fit, and readiness for the level and orientation of study. Some applicants may therefore require additional academic review before final admission decisions are made.



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