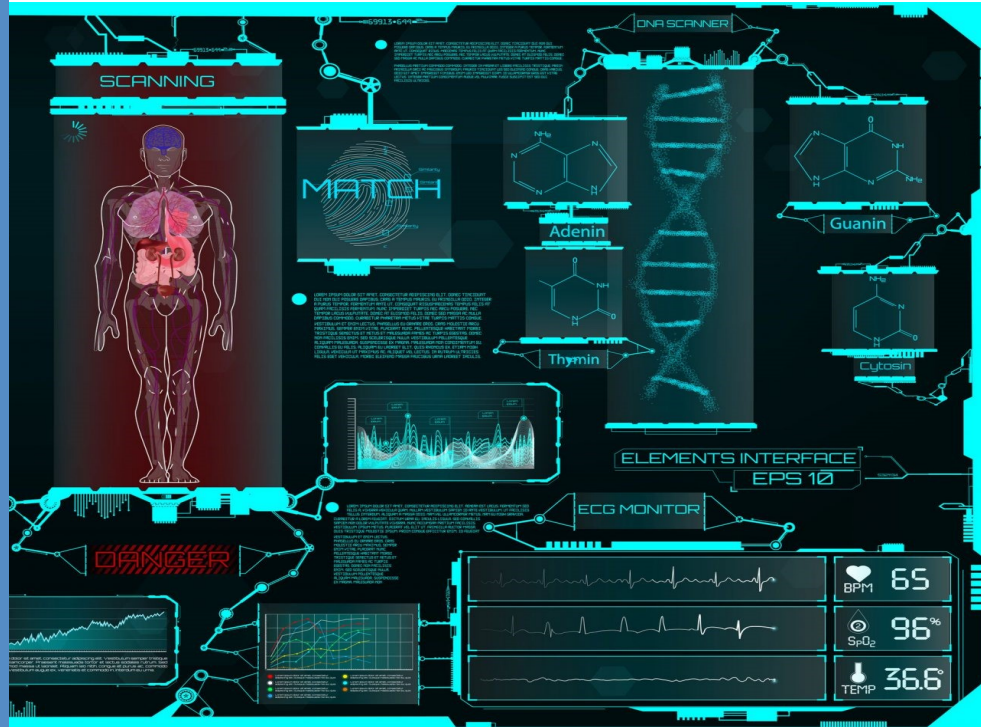


MAIHC

Master in Artificial Intelligence in Healthcare

8TH EDITION • FEBRUARY 2024. ONLINE



VENUE

FULLY ONLINE

LENGTH

February -
December 2024

FEE

5,900 € *

SCHOLARSHIPS

The University of Alcalá offers scholarships and flexible payment options

Specialize in Artificial Intelligence in Healthcare

The Master in Artificial Intelligence in Healthcare is designed for **healthcare professionals**, **entrepreneurs** and **qualified candidates** from Science, Engineering and related disciplines interested in focussing their career towards this area

The programme aims to provide comprehensive training in Artificial Intelligence in Healthcare diagnostic and decision-making.

After **finishing the program you will:**

- Understand the foundations of Machine Learning and how it can enhance decision-making in a Healthcare context
- Have a deep knowledge of the uses and applications of Artificial Intelligence for Healthcare
- Be able to conceptualize and develop solutions based on Artificial Intelligence using the available tools
- Understand the Ethical, Legal and Social implications of the use of AI in Healthcare

What do we offer?

- Our Postgraduate course allows you to make your training **COMPATIBLE WITH YOUR WORK** thanks to an innovative learning methodology with weekly modules and flexible exams.
- A **SOUND PREPARATION** for a total of **60 ECTS credits**, which allows to cover in depth all the concepts and applications. Master designed for health professionals. No programming knowledge required.
- A **METHODOLOGY** focussed on practice and context, using cases, real situations and technological tools that allow you to learn from the beginning.
- An **UPDATED CURRICULUM**, which ensures that our students are obtaining the latest knowledge in line with the trends and demands of Society.
- We have arranged a team of **OUTSTANDING PROFESSORS** with hands-on experience in the design of Artificial Intelligence and Cognitive in Healthcare Systems.
- Study your program at the **UNIVERSITY OF ALCALÁ**, one of the best Universities in Europe.

Programme

ARTIFICIAL INTELLIGENCE AND DEEP LEARNING

Foundations of Artificial Intelligence and Machine Learning
Supervised Learning
Unsupervised and semi-supervised Learning
Reinforced Learning

MACHINE LEARNING AND BIOMEDICAL DATA

Biomedical Repositories and Public Data
Management of Omics Data

AI IN MEDICAL IMAGING DIAGNOSIS

Machine Learning in CT/MR, X-ray and Ultrasound images
AI in Radiotherapy Planning
Patient-centered diagnosis and performance measurement

AI IN HEALTHCARE MANAGEMENT & BUSINESS MODELS

Hybrid human-machine teams
Process re-design
Governance of AI and Ethics
Business cases

AI IN MEDICAL TELE ASSISTANCE

Virtual Healthcare Assistants
Natural Language Processing
Video and Speech Recognition Techniques
Interpretability and explainable AI

AI IN PHARMACY AND DRUG DESIGN

Drug discovery and development applications with ML
Large Molecule Drug discovery
Applications of ML in the Pharmaceutical sector

SEMINARS

Seminars on applications of AI to the fields of medicine

MASTER'S THESIS

Independent research paper performed by the student on one of the topics of the Master. The paper needs to be presented and defended against a Committee at the end of the Master.

Participant Profile

The **Master in Artificial Intelligence in Healthcare** targets both professionals in Healthcare, researchers in related sciences such as Biology, Pharmaceuticals or professionals of other areas interested in developing products or services in Healthcare.

Our graduated students come from **diverse countries** such as USA, United Kingdom, Egypt, United Arab Emirates, India, Turkey, Spain or Greece among others.

Our students work in residents in hospitals in their country as **pediatricians, oncologists, ophthalmologists, radiologists** or **dentists**, or also in important laboratories worldwide such as **Pfizer, Bayer** or **Astrazeneca**

+ Information

To request further information to start your admission process, please contact our Admissions Department.

<http://masteraihealth.com/>

masteraihealth@uah.es