



IA

Master of Science in Artificial Intelligence

International master's program fully taught in English.

This program is offered jointly by Université Grenoble Alpes (UGA) Faculty of Science, IM²AG and Grenoble INP Ensimag, UGA / France



The Master of Artificial Intelligence is jointly offered by UFR IM2AG, the Department of Informatics and Mathematics at Université Grenoble Alpes, and Ensimag, a school of engineering specializing in Applied Mathematics and Informatics of Grenoble INP.

The academic program is a highly competitive, two-year graduate program adhering to European standards (LMD), structured into Master 1 and Master 2 levels.

<https://m-ai.imag.fr/>

Objectives

› **Acquisition of In-Depth Knowledge :** Students will acquire a deep understanding of the theoretical and practical principles of AI.

› **Advanced Technical Skills :** Students will be trained to use specific programming tools and languages

› **Practical Applications :** The program encourages the application of AI concepts to real-world problems, with examples drawn from fields

› **Ethics and Responsibility :** Given the ethical implications of AI, the program includes modules on ethics and social responsibility of AI engineers.

Sample of topics offered

This master program is a one-year (M2) specialized program.

› Natural Language Processing, Information Retrieval, Mathematical Foundations of Machine Learning, Statistical Learning, Mathematical Optimization, Robotics, Learning, Probabilities and Causality Large scale Data Management and Distributed Systems, Information Visualization, Multi-agent systems, Explainable & Trustworthy AI, Scientific Methodology, Regulatory and ethical data usage, Optimized Management & Processing for learning.

Target Careers

Career targets for graduates of the AI master's program include roles such as MLOps, Graphics & Vision, Robotics, Interaction, Natural Language Processing, Data Scientist, Data Engineering, and Decision Support. These professions meet the current needs of the AI job market

Program Positioning

The positioning of the AI master's program is based on several distinctive aspects:

› **Multidisciplinary :** The program highlights the diversity of disciplines associated with AI.

› **Emerging Technologies :** The focus is on emerging technologies while maintaining a strong foundation in the basics of AI.

› **Responsible Approach :** The inclusion of a course unit (UE) dedicated to ethics and responsible AI demonstrates the commitment to these principles

ADMISSIONS

To be admitted to the program, candidates must have previously completed their undergraduate studies and been awarded a Bachelor degree in Mathematics or Applied Mathematics.

Who can apply?

› Anyone holding a L3 or Bachelor Degree in mathematics or applied mathematics or an equivalent degree, interested in pursuing a high level mathematical education and motivated by the applications of mathematics.

› Students from related backgrounds (physics, computer science, engineering, etc) may also apply provided they possess outstanding mathematical qualifications and are highly motivated by applications.

REQUIREMENT

English language competence B2
(see English test scores accepted on our admission webpage)

APPLICATION DEADLINE

End of April



Contacts

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<https://ensimag.grenoble-inp.fr/fr/formation/masters>

