

CODE xxx**Introduction to AI for Health**

Credits: **3 ECTS**
 Semester: **1**
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Content of the Course Unit

In this program you will discover the field of artificial intelligence applied to health through online conferences. You will learn the definition and the main concepts developed in AI. This programme is a general introduction to the other courses in the Master programme.

The technological and ethical aspects will be illustrated by watching some excerpts from movies and through discussions.

You will have also the opportunity to self-evaluate your level and competences in the fields of computing, programming, biology and your knowledge of the healthcare system. This evaluation will help you to choose specific courses to upgrade your level and reach the prerequisite expected in the following units.

Detailed program

- Presentation of the AI4Health Programme, Education board and evaluation (2h)
- Introductory conferences
 - Data for Artificial Intelligence (2h)
 - Example of technologies on the market
 - Challenge of AI for Health
 - Ethical aspects of AI
- Examples from movies: anticipation of the future ?
- Self-evaluation
- Upgrade courses (computer programming, mathematics, biology, Healthcare system)

Competencies acquired for MIAI Label

Competencies	Novice	Intermediate	Advanced
1 - Select and use the right tools for structuring, exploring, researching, storing, and using data	X		
1.1 - By collecting and consolidating, explaining the data for decision-making assistance (business intelligence)	X		
1.2 - Knowing the sources and the data acquisition to train a model	X		
1.3 - By assessing the ethical and regulatory impacts linked to the data and their use	X		
2 - Know and apply learning and symbolic AI technologies	X		
2.1 - Knowing the main models and tools (their context and application conditions, their inputs and outputs)	X		

2.2 - By modeling a customer or application problem and identifying the use of AI to solve it			
3 - Identify, explore and model AI technologies on real applications			
3.1 - By having the ability to interact with specialists in the field to identify the problem and specify the needs			
3.2 - By understanding the AI architecture dedicated to an application and by making it evolve so that it matches business or customer needs: data (collection, storage, management); learning; decision making; analysis and model relevance.			
3.3 - By knowing and mastering the management of an AI project in a company			
3.4 - Using AI to transform the company and its management			

Organisation

10 Hours of courses and conferences. On-line tests after the conferences

A self-evaluation to assess the prerequisite level expected in computer sciences, programming, biology and knowledge of the healthcare system.

A set of upgrade courses (recorded courses, exercises, online documents).

Final examen consists of general questions about AI for Health and a written report on a subject.

Remember: the program is 100% online and in English

Rules of validation

Continuous evaluation (50%), Final exam (50%)