



DIGITAL TECHNOLOGY

International Master of Science (MSc)

Track DS Data Science

In the last few decades, companies have accumulated overwhelming amounts of data. Using statistical data mining methods, one can detect tendencies, hidden patterns and knowledge nuggets, and use them to make strategic decisions. This process is of crucial importance in all sectors of activity, and in particular for business, science, politics, security, healthcare, etc.

ACADEMIC DETAILS

2-year full time program

- > February intake – 4 semesters

Comprehensive curriculum

- > Multi-dimension projects
- > Professional & personalised projects
- > Workshops
- > French language & culture
- > Master thesis / internship (last semester)

Internationally recognized degree

- > MSc in Information Technology (IT) accredited by the Ministry of Higher Education and Research. No. 20171079

Associated tracks / programs

- > AEIOT – Architecture & Engineering for the Internet of Things
- > CSNE – Communication System and Network Engineering
- > CYSEC - Cybersecurity

M1 - YEAR 1 - Rennes then Brest campus

- > Basic networks communication
- > Mathematical tools
- > Probability / statistics & signal processing
- > Computer science fundamentals
- > Introduction to data science
- > Digital manufacturing
- > Fundamentals of machine learning
- > Big data and cloud computing
- > Deep learning
- > A journey to data scientist 1 & 2

M2 - YEAR 2 - Brest campus

- > Advanced data mining
- > Natural language processing & text mining
- > Game theory and agent-based modeling
- > Data science, graph theory and social network studies
- > Introduction to Artificial Intelligence
- > Anomaly detection in graphs

Courses are subject to change without notice

Taught in English

6-month paid internship in a company or lab

One of the best MSc in Data Science in Europe



IMT Atlantique
Bretagne-Pays de la Loire
École Mines-Télécom



#ComputerScience
#ArtificialIntelligence
#DataWarehouse
#DecisionAiding #DataMining
#NaturalLanguageProcessing
#KnowledgeBasedSystems
#KnowledgeDiscovery



« A HIGH VALUE OUTPUT IN RESEARCH AND INNOVATION »

“The reason why I joined IMT Atlantique is its brand value. It is one of the top-ranked “Grande Ecole” in France. And it has a high value output in the fields of research and innovation.”



Rudresh from India
MSc Alumnus

CAREER OPPORTUNITIES

Data miner / analyst, Analytics manager, Decision support system designer, R & D engineer, Business analyst, Consulting expert, Researcher and academic. Possibility to continue in PhD.

RESEARCH EXPOSURE

The program is managed by Prof. Yannis Haralambous, belonging to the Computer Science research department of IMT Atlantique, and full member of the DECIDE research group (Data Mining and Decision Theory) of the Lab-STICC CNRS laboratory. His main research topics are natural language processing and text mining. The MSc DS includes several research seminars and projects along the program, and definitely offers a gateway to PhD studies.



> “Bienvenue en France” label guarantees the quality of the experience for international students.

TUITION FEES AND SCHOLARSHIPS

5,100 Euros / year
Scholarships opportunities for: Excellent profiles, Alumni from our partner universities, European citizens, etc.

IMT ATLANTIQUE

is one of the top 5 institutions in engineering in France. As a leading Technological University, its education, research and innovation activities are recognized internationally :
Top 500 in the THE World University Ranking,
Top 100 in QS ranking for computer science, etc.

- > On-campus accommodation, restaurants, sports facilities
- > Orientation Days & French Summer School
- > A variety of student clubs

Find out more:
www.imt-atlantique.fr/it

Contact us:
it-apply@imt-atlantique.fr

Apply:
<https://www.imt-atlantique.fr/apply>



Design and production : IMT Atlantique Communication Department - July 2024 - Do not litter

