SUMMER SCHOOL «GENERATIVE ARTIFICIAL INTELLIGENCE (GENAI) FOR INDUSTRY»

STUDENT

Duration : 09 days
on 2 weeks
Code : Summer School GenAI

OBJECTIVES

Raising awareness of tomorrow's challenges related to generative AI, and all the major topics of Foundation Models and Linguistic Models (LLM), Deep Learning (DL), Machine Learning (ML) for industrial applications, of course, but also Natural Language Processing (NLP), the DL/ML revolution, and computer vision for industrial applications.

POUR QUI ?

Admission requirements

- French and international students who are concluding their Bachelor's Degree (or equivalent) in computer science and industrial engineering
- Master and PhD students are also admitted
- A B1 level in English is required with good academic results in the basic scientific subjects (linear algebra, programming skills, Pytorch, Tensorflow and Keras)
- Skills in Python and programming are required. If you're not familiar with Python, you'll need to learn the basics before the Summer School starts.

Academic calendar

Full-time

Scholarship

1 000 euros

1 000 euros.
This price includes tuition fees, teaching materials and cultural visits. Accommodation, living expenses and insurance are not included.
Group rate and preferential rate if registration before March 31, 2025: contact the campus

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Visit our website for opening dates

Open from 7 to 18 July 2025 (limited places).

Edition : 14/12/24

July 7
Welcome speech
Visit du campus
Fab'Lab Virtual Reality
La Fresque du Climat Understand "Generative AI for Industry Revolution" (3 Hours in the morning) (visiting lecturer)
Workshop/Practical work : Generative AI Case Study (4 Hours) (visiting lecturer)

July 8
Explainable and Interpretable AI models: Interpretable Machine Learning, Simpler Deep / Machine Learning Models
Workshop/Practical work: Explainable and Interpretable AI model with Pytorch

July 9
Foundation Models and Generative AI in Human-Machine Interactions: From Transformers to Foundation models for Multimedia and Computer Vision
Workshop/Practical work for Project : Generative AI for autonomous vehicles and Human-Machine Interactions

July 10
Frugal AI and NLP:
Frugal machine and deep learning models for reducing the environmental footprint of large language models: challenges and solutions
Workshop/Practical work for Project : Frugal AI for Industry application

July 11
Responsible AI and Equity: Algorithmic Fairness: A Pathway to Developing Responsible AI Systems, AI and Learning algorithms.
Launching AI project: Generative AI Project and Use Case for Real-World Industry Solutions and Indsutrial applications
Cultural Visits to Old City of Nice

July 15
Prompt Engineering and Generative AI models
Workshop/Practical work for Project : Prompt Engineering for Industry application

July 16
Machine Learning on Graph learning (Graph Neural Networks)
Workshop/Practical work for Project : Graph Neural Networks and Generative AI models

July 17
Visits companies and culture

July 18
Work on Generative AI Project
Defence of end of Summer projects
REX Bilan cloture diplôme

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