

# Winter School Data Science

Generative A I

# 26 february - 1 march 2024

#### Centrale Casablanca

Teaching and Research Unit
« Applied Mathematics Computer and D@ta Sciences » UTER

MID@S

### **Emines-UM6P**

Data Science and Industrial Process

Chair - OCP S.A.

Ecole Polytechnique - Mohammed VI Polytechnic University

## Ecole Polytechnique

Centre de Mathématiques Appliquées (CMPAX)

# **Objective**

### Focus on Generative Al

Our winter data science school focuses on generative AI.

Our main goals are to provide a deep understanding of generative AI techniques, foster collaboration and networking, promote practical skills through conferences, encourage innovation through a hackathon, present research projects, and recognize excellence through awards. We also aim to facilitate interdisciplinary learning by involving experts from various fields. Overall, our goal is to enable participants to expand their knowledge, interact with experts, and develop practical skills in the field of generative AI.

# **Audience**

Designed for PhD, Master & engineering students, experienced engineers and researchers, in addition to entrepreneurs and innovators interested in Data Sciences.

## **Contacts**

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# **Planning**



## 1. Opening Session

- · Welcome address and introduction to the winter school
- Overview of the objectives and program

### 2. Keynote Presentations

- · Presentation by Eric Moulines: introduction to Generative Al
- · Presentation by Eric Xing: Recent advancements in generative Al
- Presentation by Matthieu Cord: Practical applications of generative Al in multimodal sciences
- · Presentation by Michalis Vazirgiannis: Combinatorial methods for graph analysis in generative AI
- · Presentation by Hugo Touvron: Real-world examples showcasing the application of generative AI

### 3. Panel Discussions

- · Panel discussion on challenges and future directions in generative Al
- · Panel discussion on the intersection of generative AI with business and marketing
- · Panel discussion on leveraging generative AI for data-driven decision making in business

### 4. Research Posters Presentations

· Selected Student or PhD student present their work on data sciences (not only in gen AI) in various domains

## **5. Business Case Studies**

- · Presentations by J. Barral and N. de Bellefonds showcasing successful applications of generative AI in business
- · Insights into the impact, challenges, and opportunities of generative AI in business contexts

## 6. Hackathon Competition Showcase

· Pitch presentation of the outcomes and results from the hackathon competition between EMINES and Ecole Centrale Casablanca

## 7. Awards and Closing Ceremony

- · Recognition and announcement of awards for outstanding contributions, including business-focused categories
- · Closing remarks and reflections on the winter school
- · Appreciation to participants, speakers, and organizers