The Curriculum — GenAI & Machine Learning Bootcamp

	02/06/2025	09/06/2025	16/06/2025	23/06/2025	30/06/2025	07/07/2025	14/07/2025	21/07/2025	28/07/2025	04/08/2025	11/08/2025	18/08/2025	25/08/2025	01/09/2025
	WEEK1	WEEK2	WEEK3	WEEK4	WEEK5	WEEK6	WEEK7	WEEK8	WEEK9			WEEK10	WEEK11	WEEK12
DAY 1	11h30 - Présentation de l'école/campus + Déjeuner + Cours Florent après-midi	FERIE	**Mini-project** Python Fundamentals & Object-Oriented Programming (OOP)	**Mini-project** Data Understanding and Preprocessing and Visualization	**HACKATHON** Applications for Data Analysis	**Mini-project** Machine Learning	FERIE	Vector databases and RAG Chatbots	LLM & GEN AI (Mistral)			**Mini-project** Open-source LLMs	**FINAL PROJECT & Career coaching (a few hours)**	PAS DE COURS
DAY 2	Explication de la platform + acces a la plateforme + AI BOOTCAMP PREP (matin TA) + cours github and the tools	Python Fundamentals + OOP	Data Understanding and preprocessing (pandas intro)	Application for Data Analysis	Intro To Machine Learning	Intro to Deep Learning	**Mini-project** Deep Learning	**Mini-project** Natural Language Processing (NLP) and Large Language Models (LLM)	**HACKATHON (Day1)** Gen AI (LLM and Generative AI)			Prompt Engineering	**FINAL PROJECT & Career coaching (a few hours)**	**FINAL PROJECT & Career coaching (a few hours)**
DAY 3	AI BOOTCAMP PREP (matin TA)	Python Fundamentals + OOP	Data Understanding and preprocessing (pandas intro)	Application for Data Analysis	supervised learning (MLP	Training Deep Neural Network	NLP	LLM	**HACKATHON (Day2)** Open-source LLMs			Gradio/Streamlit	**FINAL PROJECT & Career coaching (a few hours)**	**FINAL PROJECT & Career coaching (a few hours)**
DAY 4	AI BOOTCAMP PREP (matin TA)	Python Fundamentals + OOP	Data Understanding and preprocessing (pandas intro)	Application for Data Analysis (ScyPy)	unsupervised learning	Convolutional Neural Networks (CNNs)	LLM	LLM	Open Source LLM			How to create a chatbot	**FINAL PROJECT & Career coaching (a few hours)**	**FINAL PROJECT & Career coaching (a few hours)**
DAY 5	AI BOOTCAMP PREP (matin TA)	Python Fundamentals + OOP	Data Processing and visualisation (pandas, seaborn, matloplib)	**Mini-project** Applications for Data Analysis	Statistics for ML	Recurrent Neural Networks (RNNs)	Bert & Rag	LLM & GEN AI (Mistral)	AI AGENTS			**Mini-Project** Prompt Engineering and Chatbots	**FINAL PROJECT & Career coaching (a few hours)**	**Demo Day**

Beyond Technology

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