université PARIS-SACLAY

INSTITUTE DATAIA

Data Science, Intelligence & Society

The AI Institute

@Paris-Saclay University

PAI

Programme d'Affiliation Industrielle

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DATAIA Paris-Saclay Cluster
A collective power of members and partners

Aggregate the **multidisciplinary expertise** and boost the collective power of the partners of the **Paris-Saclay cluster**, involved in **research in AI**, **data science** and their **societalimpacts**.

17 Founding Members

6 Associate Members

17 Strategic PAI Members

- 6 major companies -ETI
- 8 SMEs - Start-Up
- 3 Institutions

46 Industrial Supportive Partners

- 19 major companies
- 27 SMEs – Start--Up

INSTITUTE DATAIA
Data Science, Intelligence & Society

Our 46 AI Cluster supportive partners

19 large companies and 27 SU/SMEs



INSTITUTE DATAIA
Data Science, Intelligence & Society

Our 17 strategic PAI members
industrials and institutions

PAI
Programme d'Affiliation Industrielle

GE Healthcare

sanofi

SERVIER
moved by you

LCL
BANQUE ET ASSURANCE
Ma vie. Ma ville. Ma banque.

METAFORA
biosystems

GROUPE LANG & ASSOCIÉS
EXPERTISE AUTOMOBILE

ESSEC
BUSINESS SCHOOL

Learning Robots
Artificial Intelligence within everyone's reach

Evalmee

slb

ASNR
Autorité de sûreté nucléaire et de radioprotection

SpareParts 3D

SCIENTALAB

:probabl.

QUANDELA

IPSA

HABS
HUMAN AUGMENTED BRAIN SYSTEM

PAI
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Participate Accelerate Innovate
our value proposition around 5 axes

Research

Joint actions to support research

Collective: sharing experiences with academic and business experts

Bilateral: facilitating and increasing the development of qualified projects

Scientific Events

Organize and drive

Seminars, workshops, challenges

Training

Guide and co-build

Large catalogue offer

In company courses for faster skills development

Tutorials to raise awareness of AI issues

Recruitment

Easy access to trainees and future data scientists

Privileged access to a dedicated service

Call for proposals

Support

Intermediarie to form complementary teams

Industrial Advisory Board : contribution to DATAIA scientific strategic roadmap

Our dynamic collaboration process
2026 a new step

2020

Expertise | Student projects | Internships
> **Average duration**: 3 days to 6 months
> **Organization**: quick set-up

2023

Research Engineers | Postdocs | CIFRE PhDs
> **Average duration**: 6 months to 3 years
> **Organization**: simple and traditional design

Joint laboratories | Joint teams
> **Average duration**: 3 years to be renewed
> **Organization**: ambitious and dedicated

2026

Multi-partner chairs
> **Average duration**: 5 years to be renewed
> **Organization**: strategic and broader

Achievements
First examples

- 1 internship : LLM for biological sequence characterization (INRAE MaIAGE)
- 1 Phd : generative models for molecule developments (UEVE IBISC)
- 1 intra training : machine learning fundamentals
- 1 Data Challenge project : cell painting protocol data
- 1 Chair (4 Phds) Applied Maths for therapeutic l'Innovation (MICS CentraleSupelec)

- 2 Phds : Survival causal inference (Inria Premedical), Longitudinal data in causality (UEVE IBISC)
- 4 Postdocs : ML Medical & Omics data (UEVE IBISC), multiscale models prediction cardiac actions (Agroparitech MIA), NLP in clinical tests (CEA Biomaps), Forecasting pharmacokinetics (UPSaclay LMO)

- 1 Phd : fundational models for 3D medical imaging (CS MICS – ILLS)
- 1 Internship : quality assessment in medical imaging (UEVE IBISC)

- 1 seminar : AI challenges in AI Insurance
- 1 intra- training : regulation data in AI
- 2 inter trainings : generative AI, AI and environment

DATAIA Club Connection
Cyber & AI : subjects proposed

Design et implémentation Privacy-Enchancing Technologies (PET)

- Déploiement de technologies de PETs explicables et efficaces
- Proposer et valider à la fois une méthode et un "cyber-fablab" pour concevoir ces PETs

Information et détection de Deepfake

- Analyse Multimodale de contenu, sensibilisation aux Deepfake
- Quels intérêts à analyser les capacités humaines de détection ? Les mesurer ? Les détecter

Cybersécurité, et systèmes distribués

- Evaluation, sécurisation du code & garanties fortes par méthodes formelles, systèmes distribués et exigences de sécurité, Confiance IA
- Conformité à des normes et exigences (spatial, défense), partage de données dans une espace décentralisé, IoT, cyber : du composant à l'application métier…

Amélioration et sécurisation de l'apprentissage automatique

- Détection de comportement malveillant des systèmes multi-agents génératifs, approches pour assurer et évaluer la sécurité dans ces systèmes
- Quelles stratégies peuvent être mises en place pour protéger ces systèmes contre attaques et évaluer leur robustesse ?