Fabien Furfaro | Lead Data & AI Engineer

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Profile

Holding a PhD in Physics with a focus on computer vision and statistics, I have a strong foundation in electronics from Enedis and Vinci. My experience includes architecting AI optimization solutions and leading reinforcement learning and generative AI projects at Capgemini, as well as designing recommendation systems based on constrained optimization at Thales. For aerospace clients (Airbus, Liebherr Aerospace, etc.), I drive pre-sales, solution architecture, and advanced knowledge management initiatives utilizing graph technologies and large language models.

Key Skills

Technical: AI, ML, Deep Learning, Reinforcement Learning, Generative AI, NLP, Computer Vision, Anomaly Detection, Constrained Optimization, Python, PyTorch, TensorFlow, Simulink, MLFlow, Azure, Docker, GitLab, CAN Bus.
Functional: Research & Science, Agile PM, V-cycle, Backlog Refinement, Business model, MLOps.
Languages: French (native), English (professional)

Professional Experience

Aerospace
Pre-Sales Solution Architect — *06/2025–Present*
- Collaborated with sales to translate business needs into technical solutions and demos.
- Supported proposal design and technology demonstrations for strategic decisions.

Capgemini
Lead Data Scientist — *01/2025–06/2025*
- Architected a recommendation system integrating constrained optimization and anomaly detection.
- Managed ML and data industrialization in defense environment.

Thales Group
Senior Data Scientist — *06/2024–01/2025*
- Developed and deployed machine learning and deep learning solutions from data to production.
- Managed MLOps, statistics, and agile workflows.

Capgemini Engineering (APA)
Project Leader - AI Researcher — *09/2022–09/2024*
- Developed automotive cooling systems and intelligent supervision.
- Led project management and research activities.

INSEP / CNAM
Machine Learning Researcher — *09/2019–09/2022*
- Created evolutionary algorithms for neural network functionalization.

Axians
Electronic Designer — *2010–2012*

ERDF (Enedis)
Electrotechnician — *2008–2010*

Education

Université de Paris Cité
PhD in Physics, specializing in Complex system — *2015–2019*

Université de Paris Cité
Master's Degree in Applied Physics — *2013–2015*

Université Paris Diderot
Bachelor's Degree in Physics — *2012–2013*

Lycée St Nicolas
BTS in Electrotechnics — *2010–2012*

Lycée St Nicolas
School Diploma in Electrotechnics — *2008–2010*