Fabien Furfaro | Lead Data & AI Engineer

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in http://linkedin.com/in/fabien-furfaro/

Profile

After electronics experience at Enedis and Vinci, I completed a PhD in physics with computer vision focus. I developed AI optimization algorithms and led projects on reinforcement learning and generative models at Capgemini. Currently designing recommendation systems via constrained optimization and time series at Thales. At Airbus, I contribute to pre-sales and solution architecture for knowledge management with graphs 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, OBD, CAN Bus.
Functional: Research & Science, Agile PM, Backlog Refinement, MLOps.
Languages: French (native), English (professional)

Professional Experience

Airbus
Pre-Sales Solution Architect   *2025–Present*
○ Collaborated with clients to translate business needs into technical solutions and demos.
○ Supported proposal design and technology demonstrations for strategic decisions.

Capgemini
Lead Data Scientist   *08/2024–12/2025*
○ Architected a recommendation system integrating constrained optimization and anomaly detection.
○ Managed ML and data industrialization in defense environment.

Thales Group
Senior Data Scientist   *06/2024–03/2025*
○ 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 2 in Biophysics   *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*