



Vincent MARTENOT

Head of AI & Data Science

WORK EXPERIENCE

■ Head of AI & Data Science - Embedded Predictive Safety

In&Motion, Annecy, France | May 2025 - present

- Leading the AI strategy and data science function behind real-time fall (60ms) and crash detection powering electronic airbags, protecting riders across motorcycling, equestrian sport and urban mobility.
- Defined and drove deep learning strategy for ultra-low-latency, real-time impact detection deployed on embedded systems.
- Built the data science function from the ground up: technology roadmap and MLOps processes industrializing the model lifecycle from R&D to embedded deployment, doubling the speed of new model update cycles.
- Recruited and led a multidisciplinary team from 4 to 10 people (data scientists, data engineers, analysts ...); owned skills development and technical alignment.
- Established rigorous data governance protocols for sensitive or personal data collection, storage and anonymization, ensuring traceability and algorithmic accountability.
- Translated complex AI concepts into strategic business insights for the Executive Committee, delivering regular reporting and defending technical roadmaps at the highest executive level.
- Deployed enterprise-wide productivity LLMs and custom predictive geomarketing tools, rolled out across Germany, Italy, and Spain.

■ Lead data scientist - Healthcare & medtech

Quinten, Paris, France | Jan 2020 - Apr 2025

- Led the design and delivery of AI-based software solutions for a broad portfolio of healthcare clients, including pharmaceutical and medical device manufacturers.
- Defined R&D roadmap, technology choices, cloud cost optimization and pricing strategy. Contributed to scientific publications and to the company's R&D tax credit (CIR) documentation.
- Managed multidisciplinary teams of 5-8 (hierarchical and operational), including recruitment.
- Delivered production AI solutions: literature surveillance, adverse drug event detection (reducing missed serious cases by 50%), medical devices failure report classification, predictive diagnostics, automated medical coding, drug discovery support.
- Delivered select engagements for medical device manufacturers, applying AI and data science to regulated, safety-sensitive use cases.
- Drove operational excellence: process standardization, internal training and regulatory compliance frameworks. Contributed to commercial development, scoping the technical dimension of new client offers.

PROFILE

Head of AI & Data Science with 10 years of international experience leading applied AI, machine learning and data science functions across healthcare, medtech and safety-critical industries.

Proven track record building and scaling multidisciplinary teams of 5-10 specialists across countries, defining enterprise AI and R&D strategy, and industrializing the model lifecycle from research to production and MLOps. Combines hands-on depth in machine learning, generative AI, business intelligence and data management — complemented by earlier research experience in a bilingual English/Chinese lab in China.

CORE COMPETENCIES

• AI & Applied Science

Machine & Deep Learning •
Generative AI & NLP • MLOps & Data
Architecture • Predictive Analytics •
Statistics

• Engineering & Operationalization

End-to-End MLOps Lifecycle • Data &
Cloud Architecture Strategy • Model
Governance • Data architecture

• Management & Strategy

AI Roadmapping • Team Leadership
• Regulatory Compliance • Budget
management • Recruitment

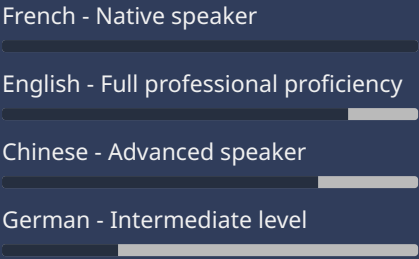
CONTACT

🏠 Saint Pierre en Faucigny, France

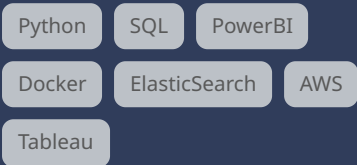
☎ +33 634731675

✉ martenot.vincent@gmail.com

LANGUAGES



SKILLS



APPLIED AI USE CASES

Rare event detection

Fall detection, anomaly detection, failure analysis

Healthcare & Clinical AI:

Clinical decision support, patient report analysis, predictive diagnostics on real-world data, risk driver identification

Advanced Customer Analytics:

Mix Marketing Modeling (MMM), churn prediction, segmentation, scoring, geomarketing, sales forecast

PUBLICATIONS

LiSA: an assisted literature search pipeline for detecting serious adverse drug events with deep learning (2022). BMC Med Inform Decis

AlIBERT: A Pretrained Language Model for French Biomedical Text. BioNLP Workshop (2022) ACL. hal.science/hal-03911564

- **Senior Data Scientist — Marketing Strategy**
Ekimetrics, France, Paris | Sep 2017 - Dec 2018
 - Led the European rollout of a predictive marketing platform; built attrition and churn scoring models.
 - Built models predicting driving behavior and socio-demographic profiles from connected-vehicle data.
 - Modeled and visualized marketing-mix impact (media, pricing, promotions, distribution, seasonality) on sales.
 - Managed client relationships and mentored junior data scientists.
- **Project manager - Smart City**
Vinci-Energies, Nanterre, France | Jan 2016 - Aug 2017
 - Coordinated two works contractors and the public client for a €3.5M/year maintenance and energy-efficiency contract covering 16,000 light points across 7 municipalities.
 - Led energy-performance and smart-city data science initiatives; built predictive-maintenance models
 - Managed a 3-5-person team
- **R&D engineer (long internship) - Fluid Physics**
EDF, Beijing, China | Mar 2014 - Aug 2015
 - Researched superhydrophobic surfaces for nuclear condenser optimization, in partnership with Tsinghua University. Work in bilingual Chinese / English environment.

EDUCATION

- **Engineering Degree**
École Polytechnique, Palaiseau, France | Sep 2010 - Sep 2013
Major: Physics, Modeling, Applied Mathematics
- **MSc, Fluid Mechanics & Modelling**
Tsinghua University, Beijing, China | Sep 2013 - Sep 2015
Program taught entirely in Chinese