

# Ndeye Sokhna SECK

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**AI Product Management | Generative AI | Agentic AI | Ethics and Compliance**

Freelance AI Product Manager and experienced Data & AI Consultant with over 4 years of experience at the intersection of data, artificial intelligence, Cloud, and software engineering.

## PROFILE

I bring unique expertise in creating AI products, with concrete experience in launching AI-based tools to define and drive product strategies that meet business challenges and user needs. My passion for designing and implementing products powered by generative AI translates into a drive to rethink and streamline the user experience through innovative and ethical solutions. I combine a technical understanding of models and MLOps with a proven ability to collaborate effectively with technical and business teams to develop and implement high-impact AI product visions.

## PROJECTS

**Learning Journey** | thelearningjourney.app | *March 2025 - Present*

- Created and launched the Learning Journey web application, which helps learners structure their experience and achieve learning goals through AI-powered paths, coaching, and tools based on high-quality, curated web content.
- **Product Vision & Design:** Conceptualized and drove the product vision for Learning Journey to address information overload and lack of structure in self-directed learning. Developed a B2B offering to support companies in sharing and assimilating internal knowledge and processes.
- **"Roadmaps" Personalized Learning Paths:** Designed a key AI feature that generates custom, step-by-step learning paths based on user constraints, goals, and assessments for maximum personalization.
- **"Relive" Learning Journal & Shareable Portfolio:** Defined a journaling and personal portfolio feature, allowing users to consolidate their thoughts and work, track their progress, and publicly share their structured paths to showcase their mastery.
- **"Routines" AI-Driven Learning Reinforcement:** Designed an intelligent review feature using AI and automated workflows to periodically suggest new resources, practice sessions, and concepts to reinforce, optimizing long-term retention.

## EXPERIENCE

**Data & AI Consultant** | Inferensia | *July 2022 - February 2025, Lyon, France*

- Led a product discovery process on AI Act compliance, defining requirements for an AI

tool to assess the compliance of corporate AI models with new regulations and provide actionable conclusions. This work included understanding the law, defining key assessment questions, and conceptualizing the technical solution.

- Implemented performance optimization for accounting fraud detection algorithms, achieving a 60% reduction in execution time for a suite of Spark algorithms to improve the AI solution's responsiveness and scalability.
- Wrote and submitted responses to calls for proposals (RFP/RFI) for consulting services in data and agentic AI, including the development of quotes and commercial proposals.

**Azure Data Engineer** | Relyens (Inferensia Client) | *Sept. 2024 - January 2025, Lyon, France*

- Designed and deployed a calculation simulation solution for business optimization. Re-implemented a simulation algorithm in Databricks on Azure Data Factory, resulting in an 83% improvement in calculation performance and a 400% ROI over 5 years on execution costs.
- Acted as a key interface between business and technical teams for gathering and translating functional and non-functional specifications (e.g., security, error handling, backup, versioning, deployment).

**Data Scientist** | Relyens (Inferensia Client) | *September 2022 - March 2023, Lyon, France*

- Developed a Deep Learning-based search and Question-Answering engine for scanned PDF documents, designing and fine-tuning models (PyTorch) to transform information access for end-users (B2E).
- Prepared data for ML use cases by collecting, processing, and feature-engineering multi-source data (PDF, images, APIs, SGBD, Open Data) to ensure high-quality datasets for predictive analyses and decision-support dashboards (Plotly Dash).
- Led interviews with business teams to understand needs and gather data for implementing solutions like dashboards and AI models.

**Business Analyst - Data Scientist** | CETIM | *April 2021 - June 2022, Senlis, France*

- Implemented a real-time anomaly detection model (One-Class SVM) on IoT data for Edge Computing, directly impacting predictive maintenance and system reliability.
- Designed technical specifications, user interfaces (Figma, Angular), and data ingestion points by gathering requirements from business teams to ensure a smooth user experience.
- Defined the architecture for MLOps and DevOps pipelines on Azure (Azure ML Studio, Docker, AKS) to automate the deployment, monitoring, and lifecycle management of AI models.

**Data Scientist Apprentice** | Amadeus | *September 2019 - September 2020, Nice, France*

- Developed and implemented a Machine Learning model (Python, Scikit-learn) for automatic anomaly detection using metadata and logs to improve system monitoring.
- Visualized KPIs using Grafana to help business teams interpret performance and identify trends. Implemented the full-stack B2E web application for real-time anomaly alerting

and visualization.

- Served as Scrum Master for the development team, managing the project in an Agile environment.

## CERTIFICATIONS

- **AI Agents Fundamentals** | Hugging Face | *April 2025*
- **Data Engineering Fundamentals** | Coursera | *November 2024*

## EDUCATION

- **Engineering Degree in Computer Science, Data Science Specialization** | Polytech Nice Sophia Antipolis, France | 2020
- **Preparatory Classes MPSI - Mathematics, Physics, Engineering Sciences** | ESIGELEC / Collège Sacré Coeur, Dakar, Senegal | 2017

## SKILLS

- **Product Management & AI Strategy:** AI product vision & roadmap, AI product lifecycle management, monetization & adoption strategy, market research, user needs analysis, Agile (Scrum, Kanban), managing AI uncertainty in product design, AI ethics & compliance.
- **AI / Machine Learning:** Supervised & Unsupervised Machine Learning, Deep Learning, Generative AI (LLM, Prompt Engineering, RAG, Agents). Agent development frameworks (Agno, CrewAI, LangChain, LlamaIndex), Agentic protocols (MCP, A2A, AG-UI), model evaluation (metrics, bias detection), and fine-tuning.
- **Data & MLOps:** Data pipeline design, feature engineering, data integration, and MLOps for continuous deployment, monitoring, and versioning of models.
- **Cloud & DevOps:** Cloud platforms (Azure, AWS, GCP), containerization (Docker), orchestration (Kubernetes), and CI/CD.
- **Web & UI:** AI-powered tools (e.g., Replit AI, Bolt, Lovable) for rapid prototyping and UX exploration. UX/UI design, wireframing, prototyping (Figma), and frontend development (HTML, CSS, JavaScript, React, Angular).

## REFERENCES

Joyce Marazano | Product Owner | Inferensia | [joyce.marazano@inferensia.com](mailto:joyce.marazano@inferensia.com)

Mario El Tabach | Project Manager | CETIM | [mario.eltabach@cetim.fr](mailto:mario.eltabach@cetim.fr)

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