Nina **Messaoudi**

DATA SCIENTIST & AI ENGINEER

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Specialized in data science and artificial intelligence, with over five years of experience in the field, I design and develop end-to-end solutions tailored to various business needs. Driven by a strong appetite for innovation, I have also created and deployed several SaaS applications integrating AI, combining technical rigor, product vision and the pursuit of concrete impact.

Skills

Data Science & AI	Machine Learning, Deep Learning, NLP, Computer Vision, LLM
Data Engineering	Spark, Hadoop, GCP, Talend, DBT
Database	PostgreSQL, MongoDB, Neo4j, SQL
Data Visualization	PowerBI, QlikSense, Dash
Backend Development	Python, FastAPI, Flask
Web Development	Next.js, React, Tailwind, HTML/CSS
Mobile Development	React Native, Expo, NativeWind
Tools & Methods	Git / GitHub, Agile Methods, Jira
Certifications	IBM Data Science, Dataiku ML Practitioner, Dataiku Core Designer
Languages	French (native), English (C1)

Professional Experience

Independent Entrepreneur
FOUNDER & FULL-STACK DEVELOPER

Toulouse, France
September 2024 - Present

- Creation and development of Pick&Eat: mobile menu scanning application with allergen detection, multilingual OCR and automatic translation (100+ languages)
- Creation and development of CashSense: SaaS financial management platform with budget overrun prediction and AI-powered automatic categorization
- End-to-end full-stack development: from UX/UI design to production deployment on cloud infrastructure
- Integration of advanced artificial intelligence solutions: LLM, OCR, NLP and machine learning for predictive analytics
- Technologies: LLM, OCR, NLP, Machine Learning, Python, React, React Native, PostgreSQL

Orange Business
DATA ENGINEER

Toulouse, France
May 2022 - September 2024

- Development of an AI chatbot for automated source code auditing
- Design and development of structured data lakes to centralize multi-source HR data
- Data structure modeling based on business use cases to facilitate analytical dashboard development
- Implementation of automated feed pipelines ensuring daily data refresh
- Collaboration with HR teams to identify, analyze and materialize their business needs
- Technologies: Spark, Hadoop, PySpark, Scala, SQL, GCP, DBT, Python, LLM

Alliance4U
DATA ANALYST

Toulouse, France
September 2020 - April 2022

- Building decision-making dashboards for the CEO and sales directors (revenue tracking, billing, consultant activities)
- End-to-end project execution: data extraction via Python API, ETL transformation (Talend), data mart creation and dashboard development (Power BI, Qlik Sense)
- Development of machine learning models for automatic matching of consultant skills with potential assignments
- Direct collaboration with the CEO and sales directors of different agencies to identify and meet analytical needs
- Technologies: Python, Talend, SQL, Power BI, Qlik Sense, Machine Learning, API REST

Education

Master's Degree in Data Science and Data Engineering
GRADUATE

Paul Sabatier University Toulouse III
2019 - 2021

In-depth data science training covering exploratory and predictive analysis, advanced statistical modeling and Big Data processing.

Bachelor's Degree in Data Science and Data Engineering Paul Sabatier University Toulouse III

GRADUATE *2018 - 2019*

Introduction to data science combining applied mathematics, descriptive statistics, programming and data analysis.

Bachelor's Degree in Mathematics USTHB University - Algeria

GRADUATE *2015 - 2018*

Training in fundamental mathematics covering algebra, analysis, probability and statistics, developing analytical rigor and complex problem-solving skills.

Significant Projects

Pick&Eat - Mobile menu scanning application Toulouse, France

FOUNDER *2025*

- Mobile application for scanning restaurant menus to identify dishes compatible with specific dietary requirements (vegetarian, vegan, etc.) and detect allergens
- Integrates an automatic translation system supporting over 100 languages
- End-to-end full-stack development: UX/UI design, implementation and deployment
- Technologies: Python, OCR, LLM, PostgreSQL, React, Next.js

CashSense - SaaS Financial Management Platform Toulouse, France

FOUNDER *2024*

- SaaS financial management platform for tracking finances, setting savings goals and predicting budget overruns
- Integrates dynamic expense estimation, AI-powered automatic expense categorization and real-time transaction tracking dashboard
- Complete architecture with Python backend and React frontend
- Technologies: Python, NLP, Machine Learning, PostgreSQL, React, Next.js

AI Trends - AI Technology Monitoring Dashboard Toulouse, France

DEVELOPER *2023*

- Technology monitoring dashboard dedicated to artificial intelligence
- Automatic aggregation and analysis of the latest news, scientific publications and trends in the AI field
- Facilitates strategic and technological monitoring with interactive visualizations
- Technologies: Python, NLP, Scraping, Machine Learning, Dash, PostgreSQL, Docker, Data Visualization