

# SOFIANE DERRAZ

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## AI Engineer | Data Scientist

AI engineer with 5+ years in Computer Science. Reduced staff workload by 60% in 1 year for Paris Tourism Office through AI tools and algorithms. Expert in Python, ML algorithms, and data viz. Built scalable pipelines and infrastructure solutions (Cloud, Docker, CI/CD). Combines technical expertise with strategic vision for high-impact results.

### SKILLS

<b>AI</b> <ul style="list-style-type: none"><li>• Computer Vision</li><li>• NLP</li><li>• Predictive Modeling</li><li>• Time Series Forecasting</li></ul>	<b>Data Visualization</b> <ul style="list-style-type: none"><li>• Apache Superset</li><li>• Power BI</li><li>• Streamlit</li></ul>	<b>DevOPS</b> <ul style="list-style-type: none"><li>• Cloud (Scaleway, Azure, GCP)</li><li>• Docker</li><li>• Microsoft Azure</li></ul>
<b>Algorithm Mastery</b> <ul style="list-style-type: none"><li>• Automatisations</li><li>• ETL</li><li>• Web scraping</li></ul>	<b>Languages</b> <ul style="list-style-type: none"><li>• English (advanced)</li><li>• French (native)</li></ul>	<b>Tech. and Sales Watch</b> <ul style="list-style-type: none"><li>• Benchmarking technologique</li><li>• Competitive Intelligence</li><li>• Éthique &amp; Réglementation de l'IA</li></ul>

### WORK EXPERIENCE

#### DIGIFAB

01/2024 – Present

AI content generation platform helping automate and scale digital content production through GenAI technologies.

##### GenAI Architect

- Development: Implemented Python pipelines in March 2024, reducing content processing time by 160% within 1 year. Centralized orchestration improved workflow efficiency.
- DevOps: Implementation of Docker infrastructure with orchestration for continuous deployment. Reduced cloud storage costs in 1 month by 30% using Scaleway optimization.
- Data Visualization: Development of an LMS for content visualization and exploitation.

#### ÂDHAVAN ALGORITHMICS

01/2021 – 01/2024

##### AI Consultant for Paris Tourism Office

Municipal tourism authority leveraging AI to optimize visitor experiences and operational efficiency through predictive analytics and automation solutions.

- Algorithm Mastery: Task automation via robot. Reduced staff workload by 60% in 1 year. Creation of competitive benchmark tool and web applications to analyze performance.
- Machine Learning / Deep Learning: Predictive models for ticket inventory and tourist flows, enhancing forecasting accuracy by 85% within 6 months through advanced ML techniques.
- DevOPS: Dockerization and deployment of applications on Microsoft Azure (CI/CD).

##### Artificial Intelligence Consultant for Headn

EdTech platform using AI to analyze company cultures and workplace environments, helping students and job seekers make values-aligned career decisions through sentiment analysis of employee feedback.

- Algorithm Mastery: Built Glassdoor data collection script in 2022, boosting efficiency 65% in 6 weeks. Extended to multiple sources for 3x more training data.

- Deep Learning: AI analysis of employee comments (text classification) to characterize the societal impact of companies and help learners choose according to their values

### **Artificial Intelligence Consultant for ADN Data**

B2B intelligence platform using AI to identify and predict strategic decision-makers within organizations, enabling targeted business development through multi-source data analysis.

- Algorithmic Mastery: Multi-source data retrieval. Hierarchical modeling of business decision-makers. Explanatory graphs of AI decisions.
- Machine Learning: Cross-referencing algorithms and selection of reliable data. Prediction of relevant strategic decision-makers to contact according to specific needs.

### **Artificial Intelligence Consultant for FranceVérif**

Fraud prevention company specializing in AI-powered e-commerce security solutions, protecting online businesses through real-time transaction analysis and adaptive fraud detection systems.

- Algorithmic Mastery: Development of data collection systems to train fraud detectors (nltk, spacy). Creation of an adaptive and generalizable web scraper
- Machine Learning: E-commerce fraud detection using AI with a 96% accuracy rate within 8 months. Visualization of algorithmic decisions. Performance monitoring dashboard.

## **W'ANT**

### **Data Scientist**

Providing in-depth analysis of tourism dynamics in Normandy.

- Algorithm Mastery: Scraping and cleaning TripAdvisor data, storage on PostgreSQL. Automation of data collection and sentiment analysis with nltk.
- Data Visualization: Creation of a real-time dashboard with Apache Superset.

## **ISOPROM**

### **Business Intelligence**

Supporting the company in their strategic decision-making.

- Algorithmic Mastery: Design of decision-making projects (CDM, SQL). Data feeding and cleaning flows (Python). Sorting algorithms and predictive revenue calculation.

## **EDUCATION**

### **Engineering Degree – Artificial Intelligence**

OpenClassrooms, in partnership with Centrale Supélec

01/2020 – 01/2022

### **Bachelor's Degree in Mathematics and Computer Science**

University of Le Havre

Le Havre, France • 01/2017 – 01/2019

### **Data Developer**

Grande Ecole du Numérique

Le Havre, France

## **PROJECTS**

### **Scoring Model for a Financial Company**

Machine Learning: To grant consumer credit, the company wants to implement a "credit scoring" tool that calculates the probability that a client will repay it or not, then classifies the application: credit granted or refused. It therefore wants to develop a classification algorithm to help decide if a loan can be granted to a client.

### **AI Chatbot for an Airline**

Microsoft Azure / AI Bot: Development of an intelligent chatbot for vacation booking using LUIS (Microsoft Azure) for natural language processing. Implementation of a complete production performance monitoring system with automated alert mechanisms. Implementation of a CI/CD workflow with GitHub Actions for deployment on Azure Web App including automated tests and continuous model evaluation.

## **Autonomous Car with AI Vision**

Deep Learning & DevOps / Autonomous car: Design and deployment of an image segmentation model for autonomous vehicles with complete cloud architecture. Implementation of data augmentation techniques, creation of a REST API, and CI/CD pipeline with Docker for automated deployment on Azure cloud. Development of a Flask demonstration application with visualization

## **VOLUNTEERING & LEADERSHIP**

### **FADSA**

01/2014 - Present

Event Manager

Organization of events and coordination of event communication. Part of the funds related to events was used to build a health center in Senegal.