Mohamed Sofiene Kadri

Software Engineer/Data Scientist

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📍 Tunis, Tunisia

SKILLS

Programming Languages: Python, Java, SQL, R.

Backend Frameworks: FastAPI, Django, Streamlit, Spring, Hibernate, LangChain, LlamaIndex, Haystack.

Data & AI/ML Tools: PySpark, Pandas, Scikit-learn, Tensorflow, Keras.

Data Visualization & Analytics: Tableau, PowerBI, Matplotlib, Seaborn, Plotly.

Cloud Platforms: Azure (incl. Azure Databricks), Google Cloud Platform (GCP).

DevOps & Orchestration: Git, Poetry, Uptrace, OpenTelemetry, Prometheus, Maven/Gradle.

Databases: MySQL, Postgress, MongoDB, Redis, Unity Catalog (Databricks).

PROFESSIONAL EXPERIENCE

AI/ML Software Engineer
09/2024 – present │ (Remote), France

Norma 🔗
- **LegalTech**: Developed a **metadata extraction algorithm** for legal documents, improving accuracy by **30%**.
- **AI Evaluation**: Designed and implemented a **benchmarking tool** that combines **exact matching** and **heuristic approaches** to evaluate model outputs.
- **ERP Forecasting**: Built and integrated a **sales and purchase forecasting module** for an ERP system to enhance business planning.

Data Scientist
06/2024 – present │ (Remote), Croatia

VendueTech
- **Data Engineering**: Designed and built **scalable ETL pipelines** to transform real estate auction data from the **bronze** to the **gold layer** using Databricks.
- **Data Analytics**: Developed **monitoring dashboards** in Databricks to supervise pipeline performance, ensure data quality, and elaborated **analytics reports** with actionable market insights for stakeholders.
- **AI Engineering**: Developed an automated **LLM-powered application** to extract structured data for data augmentation tasks, achieving over **87% accuracy**.

Software Engineer
01/2023 – 01/2024 │ Tunis, Tunisia

Optoscopia
- **Computer Vision**: Designed and integrated **asynchronous image processing pipelines** for **microscopic imaging** in a **CASA** (Computer-Aided Sperm Analysis) system, reducing analysis time by over **40%**.
- **Backend Engineering**: Developed **four core software modules** and designed the relational database schema to ensure seamless integration and efficient data storage.
- **Machine Learning Research**: Investigated the use of **t-SNE** and **UMAP** algorithms for **unbalanced multiclass clustering** in sperm morphology classification tasks.

Other Professional Experiences
2018 – 2023
- **Data Science Instructor**, *GOMYCODE* — Tunisia *(Jul – Dec. 2022)*: Delivered full-cycle data science training to over 24 students, covering Python, SQL, machine learning, and real-world project development.
- **Activity Manager**, *OTCS (NGO)* — Tunisia *(Apr. 2021 – Feb. 2022)*: Led the TRACE Community Empowerment Program, managing stakeholder coordination, project monitoring, and capacity-building training initiatives.
- **Electronics Engineer**, *FEMTO-ST Institute* — France *(Jul. 2018 – Feb. 2019)*: Designed and assembled a PCB prototype for piezoelectric signal conditioning using Altium Designer and micro SMT soldering for sensor R&D applications.

EDUCATION

Research Master's Degree in Control Engineering   09/2014 – 11/2016 │ Tunis, Tunisia
National Higher Engineering School of Tunis (ENSIT)
- **Specialized in**: Computer Vision & Machine Learning
- **Score**: 72.50% (ECTS)

Bachelor Degree Electrical Engineering   09/2011 – 06/2014 │ Tunis, Tunisia
National Engineering School of Carthage (ENICarthage)
Specialized in: Electronics & Digital Signal Processing
Score: 86.38% (ECTS)