




Samy SI BACHIR


Data Scientist


PROFIL


I've been a data scientist for 3 years, and I'm passionate about setting up secure data pipelines that enable development of robust models.


CONTACT

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 French

 Driving licence (cat B)

SKILLS

Programming : **Python**, R, Matlab

Machine Learning framework :

Tensorflow, Pytorch, sklearn,

transformers

Database : **SQL**, NoSQL

CI/CD: **Git**

Orchestration: **Airflow**, **AWS**

Dashboarding : PowerBI, Streamlit

API deployment : **FastAPI**

LANGUAGES

French : mother tongue

English: C1

Spanish : B1

REFERENCE

Sacha Clauzade :

Software manager at REEV

+33 6 81 40 67 24

PROFESSIONAL EXPERIENCE

Data Scientist (april 2022 - now) - REEV | Toulouse (FR)

- Development of integrated AI for the development of exoskeleton for stroke and patients.
- Development of a walking activity **classification algorithm**. Result: **96% accuracy**.
- Development of a model for joint angles prediction (**time series**) using LSTM. Result : **95% Pearson correlation**.
- Development of a training and model deployment pipeline (**AWS, FastAPI, Airflow, Github Actions**).
- Integration of AI in microcontrollers (C/Simulink)
- Data analysis and creation of **dashboards**
- Setup of a **PostgreSQL** database

Data Scientist (feb-aug 2021) – DEINOVE | Montpellier (FR)

- Development of signal analysis programs in biology (signal processing, baseline correction)
- Development of learning models based on unsupervised classification algorithms in the search for new antibiotic molecules

PERSONAL PROJECT :

- Development of an application that use fine tuned **LLM** and RAG to generate personalized tales for children (Langchain)

EDUCATION

Leonard de Vinci Graduate School of Engineering Paris (FR)

Major Health and Biotechnology| 2020-2022

- **Machine learning** on R and **Python** (Scipy, Numpy, Pandas, Sklearn, Matplotlib)
- **Deep learning (Tensorflow)**
- **Database management / data analysis**
- Mechatronics and robotics
- Biomechanics and imaging analysis

Faculty of Pharmacy Montpellier (FR)

Master's degree in Health engineering, Medical Device from the design to the market | 2018 – 2020

- Medical **software regulations** (standards IEC 60601-1, IEC 62304)
- Knowledge of the medical device lifecycle in compliance with quality and regulatory requirements
- Knowledge of biology, physiology and anatomy
- Design of implantable medical devices for specific projects
- Synthesis and characterization of biomaterials