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Adjunct Professor

Data Scientist (Time-series , NLP , LLM)

MLOps Engineer

Education

UNIV. GRENOBLE ALPES

DOCTORATE

Avr. 2022 Grenoble, France

- Title : Nudging electricity consumption in households : A case study of French residential sector
 - Design of ecological **nudge** based alerts by using **behavioral science**
 - Data engineering** of energy consumption of 175 French households
 - Impact analysis of **nudges** using **data science** and **econometrics**

Skills

LANGUAGES

French • English • Urdu

DEVELOPMENT

Python (+ **uv**) • SQL • Flux
FastAPI • MLFlow • dbt
PyTest • Pydantic

ARTIFICIAL INTELLIGENCE

Scikit-Learn • Tensorflow
PyTorch • HuggingFace

DATABASE TOOLS

SQLite • InfluxDB
MongoDB • PostgreSQL
Apache Airflow

MLOPS

Linux Servers (Ubuntu , Debian)
Amazon AWS • Microsoft Azure
DataBricks • Docker • nixtla
CI/CD (Github Actions)
Grafana • Quarto

Professional Experience

RESEARCH ENGINEER

G2ELAB - GRENOBLE ELECTRICAL ENGINEERING LAB

Dec. 2023 – Present Grenoble, France

- Management of **ETL pipeline** for data extraction, **NLP processing** of textual time series data and storage in a **noSQL database**.
- Creation and validation of **events related time-series variables** for their impact on the **prediction of energy consumption** using **ML/AI**.

SOFTWARE ENGINEERING EXPERT

CSTB - SCIENTIFIC AND TECHNICAL CENTER FOR BUILDINGS

Mars 2023 – Nov. 2023 Grenoble, France

- Implementation of **end-to-end time-series data management**, including **API-driven data sharing** to downstream ML users of:
 - a French project « **Observatoire de la Transition Energétique** »
 - and a European project « **COLLECTiEF** »

COMPUTATIONAL SCIENCE EXPERT

NANOÉLEC

Mars 2022 – Fev. 2023 Grenoble, France

- Implementation of a **data orchestration** of time-series data to quantify **energy flexibility** in a French academic building.

Activities in parallel

ADJUNCT PROFESSOR

GRENOBLE INP - ENSE3

Sep 2022 – Present Grenoble, France

- English** and Communication (Bachelor 1st Year - French Track)
- Machine Learning** (Bachelor 3rd Year - French Track)
- Machine Learning and **Optimisation** (Master 2nd Year - Intl. Track)

COUNCIL MEMBER - GREEN IT

DEVELOPMENT COUNCIL OF GRENOBLE ALPES MÉTROPOLÉ

Oct 2024 – Present Grenoble, France

- Discussion in a citizen's panel on **best practices of Green IT** to be suggested across the metropole.

Recent Publication

- Campodonico-Avendano, I. A., Erba, S., Papadopoulos, P., Carlucci, S., Luparelli, A., Ingrosso, A., Tresoldi, G., **Shahid, M. S.**, Wurtz, F., Delinchant, B., Leinan, P. M., Cera, S., Riederer, P., Solli, R., Moazami, A., Aghaei, M. (2026). COLLECTiEF dataset: A high-resolution indoor environmental dataset from European buildings across diverse climates supporting thermal, air-quality, and visual-comfort assessments. Data in Brief. <https://doi.org/10.1016/j.dib.2026.112486>