

# Muhammad Salman Shahid

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Adjunct Professor

Data Scientist (Time-series , NLP , LLM)

MLOps Engineer

## Education

### UNIVERSITÉ 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

- Hosseini, M., Papadopoulos, P., **Shahid, M. S.**, Javanroodi, K., Erba, S., Grover-silva, E., Riederer, P., Moazami, A., Wurtz, F., Delinchant, B., Carlucci, S., Aghaei, M., & Nik, V. (2025). Experimental insights on CIRLEM: Enhancing energy efficiency and flexibility in buildings. Energy and Buildings, 351, 116655.  
<https://doi.org/10.1016/j.enbuild.2025.116655>