

# 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

#### NANOELEC

📅 Mars 2022 – Fev. 2023   📍 Grenoble, France

- Implementation of an **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 MÉTROPOLE

📅 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>