

Amar Meddahi

amar.meddahi1@gmail.com ❖ Paris, France ❖ [Portfolio](#) ❖ Fluent in English & French

WORK EXPERIENCE

TotalEnergies (R&D)

March 2023 – Present

Doctoral Researcher (full-time) | December, 2023 – Present

Paris, France

- Responsible for designing and implementing a 3-year technical roadmap to deliver innovative technologies in intra-hour solar forecasting, utilizing ground-based sky imaging and satellite imagery.

Software Engineering Intern (full-time) | March, 2023 – September, 2023

- Led the development of an in-house solar forecasting system using sky imaging and deep learning to predict intra-hour solar irradiance variability.
- Successfully developed a PoC that surpassed commercial solutions by up to **+55% in accuracy**.

Thales

June 2022 – September 2022

Software Engineering Intern (full-time)

Toulouse, France

- Developed and implemented a recommender system to enhance internal cross-collaboration and code reuse by providing customized suggestions for software projects.
- Successfully deployed the system as a service on the internal Gitlab platform, servicing over **3,000 users** and achieving **80% positive feedback**.

IMT Nord Europe

June 2021 – September 2021

Research Intern (full-time)

Villeneuve-d'Ascq, France

- Conducted research on generative deep learning models, focusing on synthesizing network data.
- Authored and published a research article in a peer-reviewed international conference.

EDUCATION

Mines Paris - PSL University

Expected January, 2027

Preparation of a PhD, Computer Science and Energy

Valbonne, France

- Supervised by Prof. Philippe Blanc. Affiliated with the Centre "Observation, Impacts, Energie" (O.I.E.).
- Fully funded by TotalEnergies through a 3-year employment contract within their R&D department.

Institut National Polytechnique de Toulouse

September, 2023

Master's degree (with honors), Computer Science

Toulouse, France

ENSEEIHT

September, 2023

Engineering diploma (Master's level program), Computer Science and Mathematics

Toulouse, France

- 6-month exchange study program at **University of Birmingham** (UK), in 2021.

SKILLS & INTERESTS

- **Machine Learning:** Data handling, model building, and validation.
- **Programming:** Expert in Python and related ML libraries, with a focus on code quality.
- **Communication:** Excellent oral and written communication skills (technical and non-technical audience).
- **Learning:** Committed to continuous learning, professional development and adaptation to new technologies.
- **Interests:** Engages in soccer, hiking, and content creation through blogging.