Rania Zougari

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🎓 Education

Grenoble INP - Ensimag *2023-2026*
MSc in Computer Science Engineering & Applied Mathematics + MSc in AI
- **Specialization:** Artificial Intelligence, Machine Learning, and Statistics
- **Relevant Coursework:** Deep Learning, Advanced Statistics & Probability, Data Science, Data Engineering, Operational Research, Computer Vision, NLP
- **Recognition:** France's #1 Computer Science Engineering School (Le Figaro Étudiant 2025)

MPSI/MP* Preparatory Classes (CPGE) *2021-2023*
Mediterranean High School of Martil, Morocco

📊 Experience

CNRS - University Grenoble Alpes *June-Aug 2025*
AI Research Engineer Intern *Grenoble, France*
- Developed a high-precision RAG system for literature reviews, leveraging LLMs and reranking techniques.
- Containerized the full pipeline (Podman) and ensured local deployment reproducibility.
- Presented the results to researchers, leading to discussions for large-scale deployment.

Nsigma Junior Enterprise *March 2024-2025*
Quality Manager *Grenoble, France*
- Conducted internal audits ensuring legal compliance and quality improvement within the structure.
- Advised on fund management and helped reach a €86,000 turnover.

RING Laboratory - University of Lorraine *July-Aug 2024*
Simulation & Modeling Research Intern *Nancy, France*
- Integrated geothermal modeling algorithms into TIFLOW (Python) for transdimensional inversion.
- Designed simulation algorithms for fluid absorption in porous media.

Bureau Des Arts (BDA) - Ensimag *Mar 2024 - Apr 2025*
Events Manager *Grenoble, France*
- **Managed 5 events for 200 students & led teams of 25 volunteers** developing management skills.

⌥ Projects

ML pipeline to predict Roland Garros winner using logistic regression *June 2025*
- **Developed logistic regression model achieving 80% accuracy on historical tournament data using Python, Scikit-learn and Pandas.**

AI Board Game (Blob War) *April 2025*
- **Developed an AI-driven board game** in C++ using Minimax and Alpha-Beta pruning.

Deca Programming Language Compiler *Dec 2024 – Jan 2025*
- **Designed and implemented complete compiler** from scratch in Java with BYTE extension.

Scalable auction platform *Nov 2024*
- **Implemented distributed DB architecture** with MySQL, ensuring ACID compliance and data consistency.

</> Technical Skills

Programming Languages: Python, Java, C++, C, R, SQL, Html/Css/JS

AI/ML Technologies: TensorFlow, PyTorch, Scikit-learn, Pandas

Engineering: Docker, Podman, Git, DevOps, MySQL, Oracle, PostgreSQL

Development Tools: VS Code, Jupyter Notebook, RStudio, shell.

🔤 Languages

French: Native **Arabic:** Native **English:** Fluent (C1) **Spanish:** Intermediate (B2)

♟ Hobbies

Snowboard, Tennis, Music, Painting, Literature, Business, Finance, Traveling.