ISMAIL HATIM

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MsC in Artificial Intelligence Student
Currently looking for a PhD

TRAINING & ACADEMIC HISTORY

CentraleSupélec - MsC in Artificial Intelligence   **Gif-sur-Yvette, France**
Artificial Intelligence training in Machine Learning, Deep Learning and Stochastic Optimization   September 2024- Today
- Research oriented Master thesis
- Core courses: Machine Learning, Decision Modeling, Optimisation for Machine Learning, Deep Learning and Reinforcement Learning
- Elective courses: Reinforcement Learning, Natural Language Processing, Reinforcement Learning and Network Science Analytics.

ENSEA - École Nationale Supérieure De l'Électronique et de ses Application   **Cergy, France**
Engineering training in Analog and Digital Electronics and Computer Science   September 2019- February 2023
- Specialization in Computer Science and Systems
- Courses taken: Digital Signal Processing, Software Engineering, Parallel Programming, Operating Systems and Algorithms

LYCÉE CHAPTAL - Preparatory class for the Grandes Écoles   **Paris, France**
Maths Physics and Engineering Sciences then Maths Physics star class   September 2017– June 2019
- Specialization in Computer Science

LYCÉE FRANÇAIS LYAUTEY   **Casablanca, Maroc**
- Scientific Baccalaureate specializing in Computer and Digital Sciences, with honors   June 2017

ACADEMIC AND TECHNICAL PROJECTS

CentraleSupélec - Lab Project : Fairness in Generative Graph Machine Learning   **Gif-sur-Yvette, France**
- Designed and implemented an evaluation pipeline of fairness in GeML models, focusing on architectures like VGAE and diffusion models.
- Utilized PyTorch Geometric to manage graph data structures and build GNN architectures for tasks such as node classification.
- Collaborated with CVN and Inria OPIS, with guidance from researchers to align the project in AI ethics and fairness

CentraleSupélec - Research Project: Explainability in AI Models   **Gif-sur-Yvette, France**
- Designed a framework aiming to enhance interpretability in image classification by decomposing model decisions into spatial attributions.
- Applied the method on various vision models (e.g., ResNet, DenseNet) and validated its robustness under common explainability methods.

CentraleSupélec - AI Challenge   **Gif-sur-Yvette, France**
- Developed a heuristic AI for a board game implementing algorithms like Alpha-Beta pruning, with potential for more complex strategies.

ENSEA - Cross-disciplinary software project   **Cergy, France**
- Creation of a clone of the "Terraforming Mars" board game in C++, featuring simple, heuristic and advanced AI.

PROFESSIONAL EXPERIENCE

INRIA - OPIS Team (CVN) in collaboration with Institut Imagine   **Gif-sur-Yvette, France**
Incoming Research Internship: Graph-based Modeling of Multimodal Epilepsy Patient Data   May 2025 – October 2025
- Participation in a research project focused on adapting multimodal medical data.
  - Adapting EEG, MRI, clinical annotations into graph structures.
  - Enable representation learning for epilepsy diagnosis and progression prediction using Graph Neural Networks.
  - Integration of heterogeneous data modalities and application of state-of-the-art GNN architectures.

POLARYS- Business Intelligence consulting firm   **Paris, France**
Business Intelligence Consultant affiliated with various missions   February 2023 - September 2024
- **Christian DIOR Couture: Tech Lead** within an AGILE project for data visualization:
  - Optimization of KPIs calculation times on PowerBI (DAX query execution times).
  - Integration of data into PowerBI data flows, and management of dataset updates for the Americas execution committee.
- **Eaton Corporation :** Configuration of payroll data flows using SaaS **beqom:**
  - Creation of the global architecture for data integration pipelines on Azure Data Factory.
  - Development of SQL stored procedures for ETL.
- **Ardian**: Migration of an integration solution (private equity company):
  - Integration architecture for the various flows (SSIS).
  - Parameterization of the solution using configuration files.

SKILLS

Computer skills:

Programming Languages: Python, Java, SQL, C, C++ Libraries: Pytorch, Pytorch Geometric, TensorFlow, Scipy, Keras.
Languages: French & Arabic (Native), English (score TOEIC: 875), Spanish (Notions)

ACTIVITIES
- Sport: Surfing, Calisthenics
- Music: Piano (17 years of practice and participation in various events such as concerts and performances) , Guitar, Saxophone and Singing