ISMAIL HATIM

Github   Website   LinkedIn

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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**
- Conducted theoretical research focusing on improving interpretability in high-dimensional datasets.
- Developed a framework for analyzing feature importance using Shapley values, applied to models in image and text classification tasks.

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

ILLS - International Laboratory on Learning Systems   **Montreal, Canada**
Research Intern   Starting May 2025
- Research on uncertainty in Vision-Language Models:.   *6 months*
    o Leveraging probabilistic techniques to model and quantify uncertainty in large-scale, multimodal datasets.
    o Developing and evaluating methodologies for uncertainty-aware VLMs, with high-stakes applications.
    o Collaborating with researchers at LIVIA and ILLS, in partnership with CNRS, to align the work in uncertainty quantification.

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:
    o Optimization of KPIs calculation times on PowerBI (DAX query execution times).
    o Integration of data into PowerBI data flows, and management of dataset updates.
    o Production of an automated daily report for the Americas execution committee.
- **Eaton Corporation :** Configuration of payroll data flows using SQL stored procedures for ETL and Azure Data Factory.
- **Ardian**: Migration of an integration solution (private equity company) using SSIS.

LOGIQ DIGITAL AFRICA- Digital Marketing Agency   **Casablanca, Morocco**
Trainee Digital Marketing Project Manager Assistant   May 2022– August 2022
- Participation in a project to create an internal Web platform
- Participation in a project to develop a lead retrieval application for a banking institution

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