Ismail CHAKRANE

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EDUCATION

- **Faculty of Science and Technology, Claude Bernard University Lyon 1** — Lyon, France
  Master's Degree (M2) in Artificial Intelligence — *Sept 2024 – Aug 2025*

- **National School of Arts and Crafts, Mohammed V University** — Rabat, Morocco
  State Engineer's Degree in Data Science and Artificial Intelligence — *Sept 2021 – July 2024*

- **École Normale Supérieure, Cadi Ayyad University** — Marrakech, Morocco
  University Diploma of Technology in Computer Engineering — *Sept 2019 – June 2021*

- **Lycée Qualifiant Le Maghreb Arab** — Marrakech, Morocco
  High School Diploma in Physical Sciences, French Option — *Sept 2016 – July 2019*

EXPERIENCE

- **Atos** — Lyon, France
  AI Intern — *02 Feb 2025 – 01 Aug 2025*
  - Designed a unified machine learning model for thoracic medical image analysis, integrating classification, segmentation, and diagnosis tasks related to pulmonary diseases.
  - **Tools**: Python, Pytorch, Albumentations, OpenCV, Numpy, scikit-learn, Pandas

- **MG2 Engineering** — Casablanca, Morocco
  AI Intern — *06 Feb 2024 – 11 June 2024*
  - Data cleaning and preprocessing pipeline.
  - Built a content-based recommendation system.
  - Implemented a collaborative filtering recommendation approach.
  - Integrated both techniques into a weighted hybrid recommendation system optimized for training suggestions.
  - Proposed the integration of a Retrieval-Augmented Generation (RAG) model using LLama2 to handle managers prompts.
  - **Tools**: Python, FastAPI, Surprise, Numpy Pandas, scikit-learn, Ollama, LangChain

- **3D Smart Factory** — Mohammedia (Remote), Morocco
  AI Intern — *01 July 2023 – 01 Sept 2023*
  - Applied data augmentation techniques to enrich 3D dental dataset.
  - Trained the MeshSegNet model for 3D segmentation of dental arch objects.
  - Deployed the model into an interactive web-based application.
  - **Tools**: Python, JavaScript, PyTorch, OpenCV, Albumentations, Numpy, Pandas, VTK.js, FastAPI, Axios, scikit-learn, Pygco, React.js

- **Menara Prefa** — Marrakech, Morocco
  Software Engineer Intern — *01 Aug 2022 – 31 Aug 2022*
  - Designed and developed a web application for client delivery order tracking
  - **Tools**: JavaScript, Node.js, JWT, HTML/CSS, Bootsrap, MySQL

- **Sotrasouss** — Marrakech, Morocco
  Software Engineer Intern — *01 Apr 2021 – 28 May 2021*
  - Design a platform for the digitization of the company's laboratory documents.
  - **Tools**: PHP, HTML/CSS, MySQL

SKILLS

- **Languages:** Python, JavaScript, PHP, HTML/CSS, LaTeX
- **Frameworks and Libraries:** FastAPI, Node.js, Axios, Django, Vue.js, scikit-learn, PyTorch, Optuna, LangChain, Ollama, Numpy, Pandas, Seaborn, Matplotlib, OpenCV, Albumentations
- **Database Management:** MySQL
- **Version Control and Collaboration:** Git, GitHub, Jira
- **Operating Systems:** Linux

COMPETITIONS AND CHALLENGES

- **picoCTF**
  Participant — *2022 – present*
  - Player on picoCTF, participating in cybersecurity and Capture The Flag (CTF) challenges.

- **UN Big Data Hackathon** — Remote
  Participant — *Nov 2022*
  - Prediction of the Earth's average temperature using the LSTM model and visualization of results with Power BI.

LANGUAGES

- **Arabic:** Native Language **English:** C2 EFSET **French:** B2 TCF