Iliès CHENENE

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Education

Université Paris-Saclay — Orsay, France
MS Mathematics and Artificial Intelligence — *Sept. 2025 – Present*
Courses: Deep Learning, Machine Learning, Optimization, Statistical Modeling, Supervised and Unsupervised Statistical Learning, Probability, Databases

Aix-Marseille Université — Marseille, France
BS Advanced Mathematics — *Sept. 2022 – May 2025*
Courses: Linear Algebra, Inferential Statistics, Probability Theory, Measure Theory, Analysis, Differential Calculus, Programming (Python, R, Java)

Experience

Morphism.co — Gif-sur-Yvette, France
AI Research Intern — *Apr. 2026 – Aug. 2026*
- Develop graph-based machine learning pipelines for social network data collected from public APIs and multi-source platforms.
- Study interaction dynamics and information diffusion through graph representation learning and Graph Neural Networks.
- Explore deep learning methods for social network modeling, including graph learning, optimization, and regularization techniques.

Aix-Marseille Université — Marseille, France
Mathematics tutoring for middle school students in disadvantaged areas (80h) — *Sept. 2024 – June 2025*
- Volunteered as a mathematics tutor for students in priority education networks (REP+).

Projects

FiLM: Visual Reasoning with Feature-wise Linear Modulation — School Project
GitHub Repository — *Jan. 2026 – Mar. 2026*
- Implemented the FiLM architecture (Perez et al., 2017) in PyTorch for Visual Question Answering on CLEVR and Sort of CLEVR datasets.
- Built an interactive Streamlit application with live training, ablation experiments (removing BN, fixing γ/β), and feature map visualizations.
- Implemented conditional style transfer using Conditional Instance Normalization (Ghiasi et al., 2017).

Facial Emotion Recognition — Personal Project
Deep Learning Model Development — *Sept. 2025 – Oct. 2025*
- Developed a CNN (PyTorch) for facial expression recognition, achieving 73% accuracy and integrating a real-time pipeline (OpenCV).

Skills

Programming Languages: Python, SQL, R, LaTeX, Java
Technologies: Scikit-Learn, PyTorch, PyTorch Geometric, OpenCV, Databases (MySQL, MongoDB), Streamlit

Languages

French (Native)
English (Professional proficiency)