Lauriane Teyssier, MSc in AI

lauriane.teyssier@gmail.com
+33 7 83 63 09 39
lauriane-teyssier
github.com/arwen-c
Hoofdorp, NL (on-site/remote)

Passionate about solving complex optimization problems and leveraging math & AI for novel understanding

Skills

Languages

French, English, German, Chinese (~)

Coding

Python (Pytorch, Tensorflow, Pandas, Seaborn, …), java, WandB, SQL and NOSQL, LaTeX, Git,

Misc

Academic research, teaching, mutlicultural & technical communication

Education

MSc in Computer Science

Tsinghua University, 2023 - 2025.
Thesis on RL (Convex Optimization, Offline RL, Statistics)
Classes: web information retrieval, NLP, ML, Big Data Processing

Engineer degree

CentraleSupélec, 2020 - 2023
Classes: Modeling, Optimization, Statistics, Algorithms, HPC.

French Elite Exam Preparation

Lycée Pasteur, 2018 - 2020
Classes: Math, Physics, Chemistry - top 3% of engineering students

Misc. Experiences

City Council Member

Volunteering

Environment & Quality manager
Ensured ISO 9001/14001 compliance for mountain sports events
Scouting Logistics Manager
Managed food supply, budget & contribute to youth education

Experiences

2023 **Project Management for Metro Maintenance (intern - 5 months)**

1. Digitized IBM Maximo workflows, replacing Dubai metro maintenance paper tracking. Configured inspection checklists, translated operational needs into technical specs, bridged field teams with developers.
2. Led failure tracking and root-cause analysis for warranty claims using structured data. Reported to executives. Proposed database & process upgrades to enhance data reliability.
3. (side project) Built VBA-based optimization tool for maintenance scheduling, using mileage/time triggers. - Keolis MHI, Dubai, UAE

2022 **R& D Data Scientist (intern - 5 months)**

Built PyTorch model estimating Scope 3 commute emissions for Deepki's SaaS platform, using European transport data, carbon datasets, and employee surveys. Integrated via internal API for seamless UI deployment; launched as a premium feature aiding real estate clients in emissions reporting & investment strategies.- Deepki, Paris, France

Academic Projects

2024 **Search Engine**

Designed a professor search engine to help students choose thesis advisors. Scraped unstructured profiles with Hadoop, structured content via Hugging Face LLM, indexed with ChromaDB, developped a dynamic front end and deployed the Python API via Docker.

Multi-Agent LLM

Developed LLM-based multi-agent political debate simulations (GPT-4) to assess human logic modeling, validated against real debate data.

2023 **Generative AI using GAN**

Researched painter-style mimicry by comparing GAN architectures performance (StyleGAN, CycleGAN) against benchmarks.

2022 **Optimization Algorithm for Transport Logistic**

Designed a Gurobi optimization algorithm for logistics, solving a Traveling Salesman Problem (TSP).

Development of an Application for Mountain Sport Race

Co-developed a race management app: stakeholder analysis, PostgreSQL back-end, and React Native front-end (3-person team).

2021 **Development of a Virtual Escape Game**

Co-developed a playable space game in Unity, implementing C# component interactions from initial concept to final build.