



Chemseddine Benaziza

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EDUCATION

Ecole Polytechnique

MSc in Applied Mathematics - Data Science

Sep. 2024 - Sep. 2025

Institut Polytechnique de Paris, France

- **Coursework:** Machine Learning, Statistical Learning, Monte Carlo methods, Generative Models

Télécom Paris

MSc in Engineering - AI and Data Science - GPA: 3.86/4.0

Sep. 2022 - Sep. 2025

Institut Polytechnique de Paris, France

- **Coursework:** Statistics, Signal Processing, Computer Vision, Stochastic Modeling, Algorithms, Machine Learning, Optimization, Parallel Programming.

Université Paris Cité

BSc in Mathematics — BSc in Computer Science - Double Major - Rank: 3/50

Sep. 2019 - June 2022

Paris, France

- **Projects:** Network board game with UI (Java), Compiler using OCaml.

NASA Space Camp - Ranked top 6/300

Exchange Program

Aug. 2016

Huntsville, AL, USA

- Selected for a 15-day internship at NASA Space Academy following a nationwide scientific competition.

EXPERIENCE

Rippletide | Machine Learning Intern

Aug. 2024 - Sep. 2024

- Developed a deal price prediction model using XGBoost, achieving an 80% accuracy rate.
- Designed and built an LLM pipeline for automated data extraction from sales conversations.
- Collaborated with developers to deploy the model as an API. **Tools:** Python, XGBoost, NLP

Talan | Data Engineer Consultant - Intern

July 2023 - Aug. 2023

- Developed a Food Product Recommendation System using content and collaborative filtering.
- Implemented an OCR module with 90% accuracy. **Tools:** OCR, Tesseract

PROJECTS

Image Generation with MMD-GANs — School Project

April 2024 - June 2024

- Reproduced experimental results from the paper, implementing MMD-GANs and WGANs.
- Analyzed and visualized generated images to evaluate the quality and diversity of MMD-GANs compared to WGANs.

Skin Lesion Classification - Kaggle Competition - Ranked 13/80

Feb. 2024 - April 2024

- Fine-tuned a pretrained AlexNet model on an augmented dataset to classify skin lesions into 8 classes, achieving 70% accuracy. **Tools:** PyTorch, Transfer Learning

SimuFoule | Crowd Simulation Web Application

Sep. 2022 - April 2023

- Designed and implemented a server simulating up to 1000 agents using Helbing's social force model.
Tools: Python, JavaScript, Flask, Simulation Models

SKILLS

Languages: English (fluent - TOEFL 100/120), Arabic (native), French (bilingual), German (beginner)

Programming: Python, C/C++, C#, Java, JavaScript, OCaml, VBA, SQL, MATLAB, PyTorch (Proficient)

ACTIVITIES, HOBBIES

ICPC Competitions: Ranked 43/100 (Europe) in 2024 with Télécom Paris Team

QRT Data Challenge 2024: Ranked 3/14 in local school contest

Télécode Society: Head of the competitive coding

society of Télécom Paris, organized weekly sessions.

Podcasting: Host of "Chems Makes Podcasts" - 5 episodes on tech topics.

Sports: Karate (Black Belt), Marathon (3h30), Boxing (University Gold Medal).