

Chemseddine Benaziza

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EDUCATION

- Ecole Polytechnique** Sep. 2024 - Sep. 2025
MSc in Applied Mathematics - Data Science Institut Polytechnique de Paris, France
– **Coursework:** Machine Learning, Statistical Learning, Generative Models, Text and Graph Learning
- Télécom Paris** Sep. 2022 - Sep. 2025
MSc in Engineering - AI and Data Science - GPA: 3.86/4.0 Institut Polytechnique de Paris, France
– **Coursework:** Statistics, Computer Vision, Stochastic Modeling, Algorithms, Machine Learning, Optimization, Theater, Economics, History of Art.
- Université Paris Cité** Sep. 2019 - June 2022
BSc in Mathematics — BSc in Computer Science - Double Major - Rank: 3/50 Paris, France
– **Projects:** Network board game with UI (Java), Compiler using OCaml.
- NASA Space Camp - Ranked top 6/300** Aug. 2016
Exchange Program Huntsville, AL, USA
– Selected for a 15-day internship at NASA Space Academy following a nationwide scientific competition.

EXPERIENCE

- Incepto Medical | ML research Intern** April 2025 – Oct. 2025 (On going)
– Currently improving the classifier with exploiting data from reports (multi-modal classifier).
– Developed a binary classifier for lesion detection on prostate MRI with an AUROC of 0.86.
– Developed a data extraction script that reduced processing time from 10 minutes to 1 minute.
Tools: Python, Machine Learning, Deep Learning, Medical Imaging, Tensorflow, Kubernetes, AWS
- 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, Finetuning

PROJECTS

- Keyword Extraction for Topic Modelling — L'Oréal Project with my Masters** January 2025 - April 2025
– Developing and implementing keyword extraction techniques to enhance topic modelling for product reviews.
- 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
- MistralFoot| Real-Time AI Soccer Commentator using Mistral 7B** May 2024
– Fine-tuned YOLOv8 for player and ball detection, fine-tuned Mistral 7B for soccer comments **Tools:** Python, YOLOv8, Mistral 7B, Object Detection

SKILLS

Languages: English (fluent - TOEFL 100/120), Arabic (native), French (bilingual), German (beginner)
Programming: Python (proficient), C / C++ (advanced), C, Java, SQL, MATLAB, PyTorch (proficient), Tensorflow

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 - Silver Ile-de-France).