

Anis Farah

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Data Scientist specializing in Machine Learning and AI, with academic and practical experience across France and Tunisia. Passionate about solving real-world problems through data-driven solutions, demonstrated through internships in both R&D and production environments, as well as applied academic projects. Fully mobile and immediately available for Data Science and AI roles in France and abroad.



Education

IMT Nord Europe, Lille, France	2024 – 2025
Academic Exchange — S9 & Final-Year Project (PFE)	
Specialization: Data Science & AI	
ESPRIT, Tunis, Tunisia	2022 – 2025
Engineering Degree in Data Science (EUR-ACE®); part of the curriculum completed at IMT Nord Europe	
ISET Cherguia, Tunis, Tunisia	2019 – 2022
Bachelor's Degree in Information Systems Development	

Experience

R&D Data Science Intern (Final-Year Project), Caplogy Innovation — Vélizy, France	Apr 2025 – Sep 2025
• Contributed to the development of FORTRAJ, a hybrid system for detection, tracking, and trajectory prediction in autonomous drones.	
• Improved the trajectory prediction module to anticipate movements earlier and enhance responsiveness.	
• Validated the system on real-world drone data and dynamic scenarios.	
• Conducted comparative evaluations with baseline models, showing measurable gains in robustness.	
• Technologies: Python, PyTorch, Deep Learning, OpenCV, Git/GitLab	
Data Science Intern, Swiss Premium Negoce (SPN) — Tunis, Tunisia	Jun 2024 – Aug 2024
• Automatic extraction of fines using OCR.	
• Image preprocessing (segmentation, noise reduction).	
• Information extraction using LLM.	
• Data integration in MongoDB.	
• Technologies: Python, MongoDB, NextJS, FastAPI, OCR, LLM, Deep Learning, Git/GitLab	
Data Science Intern, BTS Bank — Tunis, Tunisia	Feb 2022 – Jun 2022
• Development of a credit scoring model using ML techniques to predict customer solvency.	
• Validation and testing of the model.	
• Deployment of the model into a web application.	
• Stakeholder reporting and engagement.	
• Technologies: Python, Machine Learning, Flask, UML, MongoDB, Classification, NodeJS, Git/GitHub	

Academic Projects

Generative AI — Human Motion to Text	Jan 2025
• Participated in the IMT Nord Europe Kaggle Challenge, developing a generative model to produce textual descriptions from 3D human motion data.	
• Handled data preprocessing, model training, and evaluation using the BLEU metric.	
• Technologies: Python, PyTorch, NLP, Deep Learning, pandas, BLEU, data processing, dataset creation	
Automatic Object Detection in Telemedicine Images	Mar 2024 – May 2024
• Built a CNN and Mask R-CNN model for detecting medical objects in radiology images from public datasets.	
• Trained models on labeled image datasets.	
• Developed detection algorithms using Faster R-CNN / YOLO.	
• Implemented evaluation metrics (mAP, IoU, Recall, Precision, F1-Score).	
• Technologies: Python, Deep Learning, PyTorch, Detection, CNN, YOLO	
Intrusion Detection System	Oct 2022 – Dec 2022
• Designed and implemented an intrusion detection system to analyze network traffic and detect abnormal behaviors.	
• Built models using ML techniques such as KDD-KP.	
• Developed a user-friendly interface for monitoring and visualization.	
• Technologies: Python, Machine Learning, Random Forest, Neural Networks	

Skills, Certifications & Languages

Technical: Machine Learning, Deep Learning, Computer Vision, NLP, Python, PyTorch, FastAPI, Flask, Docker, Git/GitLab, CI/CD (basic), Hadoop, Spark, R, Java, JavaScript, NodeJS, NextJS, UML, OpenCV, MongoDB, MySQL, PL/SQL.
Soft: Teamwork, Communication, Time Management.
Certifications: Scrum Foundation Professional Certificate; Building Transformer-Based NLP Applications.
Languages: Arabic — Native; French — Full Professional Proficiency; English — Full Professional Proficiency; Spanish — Limited Working Proficiency.