

FOUED BENIDIR

Graduating in november 2025 with a Master of Engineering degree, specializing in Medical Systems with a major in AI, and currently doing an AI project for my End-Of-Studies internship at GSK, I am seeking a PhD position in AI

+33 679295413

fouedbenidir24@gmail.com

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EDUCATION

- 2022-2025 • Master of Engineering major Medical Systems, minor AI for Healthcare** *ESIGELEC - Rouen, FRANCE*
- 2020-2022 • Integrated Preparatory Class – PSI track (Physics and Engineering Science)** *ESIGELEC - Rouen, FRANCE*
- 2020 • Baccalauréat in Physics-Chemistry** *Lycée Saint Jean Baptiste de la Salle, Rouen*

PROFESSIONAL AND ACADEMIC EXPERIENCES

End-of-Studies Internship – AI Engineer, Manufacturing Data Analytics Team, GlaxoSmithKline Vaccines Belgium (GSK)

April 2025 – October 2025

- Developed a confidential AI-based proof of concept for process monitoring in cell culture, aiming to reduce human bias and increase vaccine production yield (with a projected impact of over 20%).
- Conducted exploratory statistical analysis and literature review to identify features and fine-tune segmentation methods (e.g., Cellpose, CellProfiler) on manufacturing image data, in close collaboration with domain experts under strict data confidentiality constraints.

Research Trainee – Project MR-IQ, TransRad team, Luxembourg Institute of Health (LIH)

July – August 2024 | Supervisor: Dr. Keunen | Co-author of a scientific paper

- Preparation of a medical dataset into HDF5 architecture using Python algorithms for image quality assessment.
- I processed 600 DICOM abdomen/brain scans (MRI, CT-scan) by applying controlled degradations (blur, contrast, artifacts) on Linux/VScode, supporting a clinical study using MR-IQ metrics that resulted in co-authored research (publication expected 2026).

Scholar Research Project – Robot Controlled by Voice Recognition and Computer Vision

November 2024 – January 2025

- I conducted bibliographic research using academic repositories (ArXiv) and search engines (Google Scholar) in order to design a viable multimodal approach coupling voice recognition (Vosk), computer vision (YOLOv8) and robot control (RTDE, 30K€ UR5e).
- I authored an article for the school journal (available on my Portfolio) describing results (98% precision for voice recognition, 100% object recognition) and potential improvements for future experiments (robot part).

SKILLS

IT Skills:

- Programming: Python (OpenCV, YOLOv8, Tensorflow, PyTorch, Pandas, Matplotlib), C/C++ , MATLAB.
- Development Tools: Github, VScode.
- Operating Systems: Linux (Ubuntu), Windows.
- Datas : SAP, SQL, DataProcessing

Certifications and norms :

- Supervised Machine Learning: Regression and Classification (Coursera).
- Advanced Learning Algorithms (Coursera).
- Google Project Management (Coursera).
- Norms ISO 13485, ISO 14971.

Mathematics & Physics :

- Linear Algebra, Fourier Analysis, Probability and Statistics (PCA, EDA), Time Series.
- Solid and Fluid Mechanics, Dynamics.
- Electromagnetism, Thermodynamics.

Languages:

- French: Native.
- English: Professional proficiency.
- Spanish: Upper-intermediate proficiency.

Soft Skills:

- Autonomy, Analytical thinking.
- Strong intellectual curiosity.
- Teamwork & Project Management.

INTERESTS

Sports (Individual and Team)

- Football: 8 years in a club, team captain, president of the football association ASFT76.
- Judo: 12 years in a club, youth competition.

Scientific and Other Interests

- Technology: Passionate about new technologies, with certifications on Coursera.
- Competitive Spirit: Winner of the Med'Ing Health Hackathon 2024, organized by Aptar Pharma.
- Continuous Learning: Active reader of scientific literature (Springer, Nature).
- Music: Played guitar at the conservatory for 7 years.