

# Yassine Rodani

Strasbourg, France | [+33-626-323-290](tel:+33626323290) | 6th September 2000 | [yassine.rodani@gmail.com](mailto:yassine.rodani@gmail.com)  
[yassine-rodani.info](mailto:yassine-rodani.info) | [linkedin.com/in/yassine-rodani](https://www.linkedin.com/in/yassine-rodani) | [github.com/yassine-rd](https://github.com/yassine-rd)

## Education

**Engineer's degree in Computer Science**  
*Machine Learning specialization | GPA – 17,23/20*

*ENSISA, University of Upper Alsace  
September 2020 - September 2023*

**Preparatory classes for higher education institutions**  
*Advanced mathematics and physics | GPA – 16,74/20*

*CPGE Moulay Al Hassan  
September 2018 - July 2020*

## Work experience

**AI Engineer Intern - R&D, Groupe SII | Strasbourg, France**

*February 2023 - August 2023*

- Improved document recognition process in a healthcare facility by 37% and enhanced their document management system by designing a multimodal AI-based system using cutting-edge models.
- Drove implementation of complex algorithms to train and run the Vision Transformer model as proposed by the Google Brain team using PyTorch, achieving a final F1 score of 90% on a dataset of 1.5 million images.
- Leveraged explainable AI techniques to provide transparent insights into Vision Transformer predictions, enhancing trust and confidence in the system's decisions among users.
- Trained language model FlauBERT to solve downstream tasks (e.g., sentence classification, named entity recognition), using a dataset of over 2M documents, demonstrating proficiency in handling large-scale data and fine-tuning foundation models.

**Computer Vision Intern, Maison Haegel | Strasbourg, France**

*September 2022 - February 2023*

- Improved counting process accuracy at an exotic aquarium store by 23% and increased company's ROI by developing and implementing a real-time computer vision system for tracking and counting fish species, using the ML.NET framework.
- Designed robust algorithms to build and run the YOLOv4 model with TensorFlow and OpenCV, ensuring accurate and efficient fish tracking in real-time.
- Improved real-time operational efficiency on a Raspberry Pi system by implementing AI model quantization for edge devices using TensorFlow Lite, thus streamlining computational requirements and model size.

**Software Developer Intern, Fujikura Automotive | Tangier, Morocco**

*July 2021 - August 2021*

- Assessed the development of logistics and warehouse software, displaying an understanding of business needs and software development with .NET Framework.
- Boosted the internal operational efficiency by 17% through software performance optimization and GUI refinement, demonstrating competence in user-centric design and development.

## Selected projects

**Portfolio website** (*for additional information and projects*)

[yassine-rodani.info](https://yassine-rodani.info)

**PaperWhiz**

[\[Github repo\]](#) [\[Report\]](#)

- Developed an NLP-based paper recommender system that can help data science enthusiasts discovering valuable machine learning papers to explore with the arXiv API and Hugging Face Sentence Transformers.
- Maintained feature engineering, training, and inference pipelines using Github Actions and Hopsworks, leveraging its feature store and model registry.

## Skills and Certifications

**Development:** Python, scikit-learn, TensorFlow, PyTorch, JAX, XGBoost, OpenCV, Open3D, LangChain, SQL, MySQL, NoSQL, R, Bash, C++, C#, .Net Framework, ML.NET, Java, Spark, Hadoop, CUDA

**MLOps:** AWS, Azure, Weights&Biases, CometML, FastAPI, Kubernetes, Docker, CI/CD, Hopsworks, MLflow, Airflow

**Transversal Skills:** Leadership, Autonomy, Teamwork, Creativity, Adaptability, Curiosity, Critical Thinking

**Certifications:** [IBM Data Science Professional Certificate](#), [Natural Language Processing Specialization](#)