

Yassine Rodani

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Education

Engineer's degree in Computer Science
Engineer's degree program, specializing in Machine Learning

ENSISA, University of Upper Alsace
Graduation Date: September 2023

Preparatory classes for higher education institutions
Advanced mathematics and physics | GPA - 3.57/4

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.
- 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.
- Delivered internal industry presentations to effectively demonstrate the value of vision transformers in advancing document recognition and classification solutions within the healthcare industry.

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

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](#)