Rayan Samy RAMOUL
AI Research Engineer

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SKILLS

Python | Pytorch | Git | Linux | OpenCV | Problem solving | Deep Learning | Machine Learning
Computer Vision | Pandas | Data structures & Algorithms | Deep Reinforcement Learning

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PROFESSIONAL EXPERIENCE

09/2021 – present
Paris, France

AI Engineer, *Quant AI Lab*
- Developed custom **deep learning models** tailored to meet client-specific requirements and encapsulated them in user-friendly APIs with React and Streamlit interfaces.
- Managed and mentored a technical team, ensuring the adherence to best software engineering practices, resulting in a **40% reduction in code defects**.
- Trained and deployed multiple deep learning models on AWS, leading to a **12% improvement in model efficiency** and a **15% reduction in computational costs**.
- Actively engaged with clients, assisting in the sales process, and addressing their AI-related challenges. This led to successful contract signings and established the company as a trusted AI solution provider in the market.

03/2021 – 09/2021
Paris, France

Research Intern in Deep Learning, *Sorbonne University*
- Led the successful evaluation of various AI techniques, achieving an **accuracy rate of 92%** in classifying spatial organizations of low clouds observed via satellite imagery.
- Utilized an Xarray dataset of geo satellite collections, implementing the Image-Embedding technique with pre-trained models and fully-connected MLPs.
- Applied advanced AI methods, including **Image-Embedding, PCA, and Deep Convolutional AutoEncoders**, to enhance cloud classification accuracy.
- Successfully achieved the primary internship objectives, including the **discovery of previously unidentified cloud classes**, signifying a groundbreaking contribution to the field of cloud classification.

OPEN SOURCE PROJECTS

12/2022	**ViT Pytorch Implementation** 🔗
11/2020	**Active Object Localization with Deep Reinforcement Learning** 🔗
05/2020	**Mutli-Agent RL for hunt environement** 🔗
03/2020	**File explorer app based on NLP helping to organize and retrieve documents**
11/2019	**Deep Reinforcement Learning for Chess** 🔗

EDUCATION

2021
Paris, France

Master's Degree, IMA (Computer Vision and AI), *Sorbonne University* and *Telecom Paris*
- Completed a rigorous coursework in the field of AI, including **Deep Learning and Images Interpretation, Advanced Image Processing, Computer Vision, and Medical Imaging**.
- Achieved a remarkable grade of 15/20 demonstrating strong dedication and excellence.
- Ranked at the top of the internship cohort with an exceptional score of 18/20 and received congratulations from the jury, highlighting exceptional abilities

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CERTIFICATIONS

09/2021	**Amazon Web Services (AWS) Cloud Practionner,** *AWS*
03/2021	**Financial Markets,** *Yale University*

LANGUAGES

French *(Native)* | **English** *(Full professional working proficiency)* | **Arabic** *(Basic level)*