

# Rayan Samy RAMOUL

## AI 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

### 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 environnement** [🔗](#)
- 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 of science (Msc.) in Computer Vision, Sorbonne University**
- 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

### 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)**