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Rayan Samy RAMOUL

Data Scientist

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SKILLS

Tools and Languages	Python, PyTorch, Git, OpenCV, Pandas, Scikit Learn, \LaTeX , Linux and Bash, NoSQL, SQL, Flask, C.
Quantitative Research	Deep Learning, Machine Learning, Computer Vision, Deep Reinforcement Learning (DQN), Mathematical optimization, Mathematical Modeling, Advanced Algorithmic.
Communication	French, English (fluent) and Arabic (basics).

EDUCATION

Master 2 in Computer Vision (IMA), Sorbonne University (ex: University of Pierre and Marie Curie U.P.M.C) Paris, Sep 2021

- Grade : 15/20, High Honors.
- Ranked at the top of the internship grades with 18/20 and jury's congratulations.
- Relevant Coursework : Deep Learning and Images Interpretation, Advanced Image Processing, Computer Vision, Medical Imaging.

Master 1 in Artificial Intelligence, Paris-Saclay University Paris, Sep 2020

- Grade : 14/20, High Honors, Rank 3/52.
- Relevant Coursework : Machine Learning, Multi-Agents systems, Probability and Discrete Mathematics, Advanced Algorithms, Operational Research.

Entrepreneurship/Entrepreneurial Studies, CELSA Higher-School Paris-Sorbonne Paris, Jun 2022

- Grade : 14/20, High Honors.
- Relevant Coursework : strategy, marketing and market research, building a business model, accounting and management, financing methods, intellectual property, corporate law, communication..

Bachelor in Mathematics and Computer Science, University of Science and Technology Houari Boumediene Algiers, Sep 2020

TECHNICAL EXPERIENCE

Data Scientist Sep 2021 — Present
Quant AI Lab Paris, France

- Goals : Development of multiple deep learning models to answer clients needs and wrap them in APIs.
- Tasks : Leading the creation of the products and using stack of Python, Pytorch, OpenCV and HuggingFaces.
- Results : Created two products : Qaracterize (Computer Vision and Perception for specific and non-generic images and videos) Qsense (Using state-of-the-art nlp approaches for text related documents to extract rich information) and by that creating new channels for the company.

Research Intern in Deep Learning Mar 2021 — Sep 2021
Dynamic Meteorology Laboratory / Paris, Sorbonne University Paris, France

- Goals : The objective of this internship was to evaluate the contribution of different artificial intelligence techniques for classifying spatial organizations of the low clouds observed by satellites.
- Tasks : Reading Xarray dataset of geo satellite collection, Apply the Image-Embedding technique using a mixture of pre-trained models and fully-connected MLP, Using PCA and then computing clustering labeling, feature maps visualization, GradCAM and finally implementing and using Deep Convolutional AutoEncoders and Deep Clustering.
- Results : Largely reaching the main objectives, discovering new classes of cloud, presented my results to a seminar, results will be presented in an international conference in July 2022 and a paper for a peer-reviewed journal is in preparation.

Research Intern in Machine Learning Jan 2018 — Jun 2018
Laboratory of Research in Artificial Intelligence Algiers, Algeria

- Goals : I had the initial objective of developing an intelligent file system to let you explore your files while sorting them based on their contents.
- Tasks : Crawling and scrapping the dmoztools.net website to create our dataset and bypassing botting protections. Applying numerous natural language processing techniques: tokenization and deletion of stop words.
- Results : Developing an advanced graphical for the final intelligent file explorer and training of multiple machine learning models dedicated to three languages: English, French, and Arabic with an average precision of 70%.

SIDE PROJECTS

Head of Technical Unit of Open-Minds university association, leading a team of 6 developpers.	2017-2019
Google Developer Group Hackathon, leading a team of 4 developers to build a browser extension. (Project Link)	2017-2019
Active Object Localization with Deep Reinforcement Learning. (Repository)	Fall 2020
Interpretation of Deep Neural Networks. (Repository)	Spring 2020
Mutli-Agent RL for hunt environnement. (Repository)	Spring 2020
Deep Reinforcement Learning for Chess. (Repository)	Fall 2019
Intelligent desktop newsfeed app. (Repository)	Spring 2020