

CONTACT

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- ➡ Driving licence B

SKILLS

Machine Learning: Python (pandas, numpy, matplotlib, OpenCV, scipy, Scikit-Learn, keras, pytorch).

Computer Vision : Wolfram, OpenCV, scikit-learn, scikit-image, Pytorch. **NLP :** Topic Modeling, BERT, Text Summarization, Keywords Extraction, Word

Embeddings, POS Tagging . **MLOps:** Packaging, Deployment,
Docker, Containers, Cloud, Microser-

vices, Streamlit, FastAPI, VueJS. **Linux:** Bash Scripting, Commands. **Data Base:** MongoDB, MySQL, SQL

Office Tools: Latex, Ms Office.

Graphic Design: Photoshop, Premiere

Illustrator, Xd.

Hardware: ESP32, Arduino. **Soft:** Time & Team Management.

LANGUAGES

Arabic Mother Tongue. **French** Fluent.

English Advanced. **Spanish** Beginner

HOBBIES



Amateur Astronomy



Teaching



Graphic Design

Programming

CERTIFICATION

Introduction to Image Processing. Exoplanet Observing. Analyzing Data with VStar. Observing and counting sunspots.

YASSIR LAIRGI

Data Scientist | Machine Learning & Computer Vision Engineer

Teamwork, Flexibility, Continuous Learning

Yassir has shown an ability to lead a project from A to Z. He was able to investigate complex issues in a proactive and autonomous manner.

R.C. - My Second Year Internship Supervisor

We are very satisfied with the work that Yassir brought. He succeeded perfectly in adapting his knowledge to our application, hence the proposal to include a small chapter on the subject in a SPIE article.

F.B - My Final Year Internship Supervisor

EDUCATION

2021 - 2022 ECOLE DES MINES DE SAINT ETIENNE FRANCE - TRIPLE DEGREE

MASTER OF SCIENCE - MATHEMATICAL IMAGING AND SPATIAL PATTERN ANALYSIS

2020 - 2021 ECOLE DES MINES DE SAINT ETIENNE FRANCE - DOUBLE DEGREE

2021 - 2022 INGÉNIEUR CIVIL DES MINES | MAJOR-1 DATA SCIENCE , MAJOR-2 COMPUTER SCIENCE ,

TOOLBOX COMPUTER VISION & ARTIFICIAL INTELLIGENCE

2018 - 2020 ECOLE HASSANIA DES TRAVAUX PUBLICS MOROCCO

2016 - 2018 PREPARATORY CLASSES, MATHEMATICS AND PHYSICS

PROFESSIONAL EXPERIENCE

COMPUTER VISION ENGINEER

CENTRE NATIONAL D'ETUDES SPATIALES - TOULOUSE FRANCE

April - September th

Proposing an innovative approach to reduce satellite failures, in hyperspectral 3D cubes, through automatic detection of organic materials which have the disadvantage of outgassing under vacuum and contaminating the satellite detectors.

This approach was published as a scientific paper.

Keywords: Hyperspectral Image Processing, openCV, ICA, PCA, Kmeans, Automatic Segmentation, 2DCNN, Fast3DCNNs, keras, Parallel computing, GUI.

RESEARCH ENGINEER

January - March 2022

UNIVERSITY OF GADJAH MADA - INDONESIA

Evaluation of artificial texture images generated by the Pix2pix GAN architecture in order to select the most reliable artificial samples for the data augmentation process.

Keywords: Data Augmentation, GANs, Deep Learning, Pix2pix.

R&D IN NATURAL LANGUAGE PRO-CESSING

June- September 2021

AUVALIE INNOVATION - LYON FRANCE

Implementation and deployment of a graph-based approach to estimate the semantic relatedness in a technical documents.

Keywords: NLP, Topic Modeling, LDA, KeyBERT, Graph theory, Mind Mapping, Relatedness measure, Strealmlit and FastAPI for MLOPS.

FULL-STACK DATA SCIENTIST

September- January 2021-2022 Prototyping a cloud-native Web Application for NLP Topic Analysis based on dockerized Flow, Background tasks and High-performance web server.

Keywords: Docker Containers, Microservices, MLOPS, Parallel processing.

IMAGE PROCESS-ING ENGINEER April - May

2021

ECOLE DES MINES DE SAINT ETIENNE

Detecting, from an input video, a moving granular material and measuring its height through a spatio-temporal figure.

Keywords: Video Processing, Video Frames Extraction, Automatic Segmentation, Region of Interest Extraction, Mathematical Morphology and noise reduction.

- Pixel Counting.

IMAGE PROCESS-ING ENGINEER January- May 2021

HORTI SUD - AGADIR MOROCCO

Evaluating a farm water distribution using satellite images and automatically calculating the uniformity coefficient.

Keywords: Automatic Image segmentation, KMeans Clustering, Machine Learning, Mathematical Morphology and Surface Calculating.

SCIENTIFIC RE-SEARCH CO-AUTHOR

SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE)

Co-author of the article "Performance review of a UV/vis/IR fluorescence hyperspectral camera to detect contamination on spacecraft during integration" SPIE (2022 Vol. 12224, pp. 336-346).

CO-AUTHOR

INTERNATIONAL CONFERENCE ON DIGITAL TECHNOLOGIES AND APPS

Co-author of the article "Forecasting Heating and Cooling Energy Consumption by Seasonal ARIMA Models" Springer, Cham (pp. 65-74).

CO-AUTHOR

MEDITERRANEAN JOURNAL OF CHEMISTRY

Second co-author of the article "Impact of Waste Recovery on the COVID-19" Propagation "Mediterranean Journal of Chemistry 2020, 10(8), 744-751.