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# LAGRAMEZ Hamza

Data Scientist

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Passionate about deep learning. Experience in leading projects and working effectively within a team. Interested in devising a better problem-solving method for challenging tasks and learning new technologies.

## EDUCATION

**Data Science**, *National Institute of Statistics and Applied Economics* 09 2019 — 07 2022  
**MATHS, Physics AND Engineering**, *Preparatory Classes Lissane Eddine Ibn AL khatib* 09 2017 — 07 2019

## SKILLS

<b>Tools and Languages</b>	Python, R, SAS, Scala, Java, SQL, C/C++, Sparql, LINUX, Hadoop, Spark, Kafka.
<b>MLOPs</b>	Docker, MLFlow, Kubernetes, Kubeflow, CI/CD, AWS, AZURE, GIT.
<b>Mathematics</b>	Stochastic process, Linear and no Linear Programming, discrete models, Probabilities, Graph theory.
<b>Statistics</b>	Time series, Statistical inference, GLM, Dimension reduction.
<b>Communication</b>	Arabic, English, French.

## TECHNICAL EXPERIENCE

**Computer vision Engineer: Full Time / Computer Vision in Retail and Logistics** 12 2022 – Present  
*E-Maroc Wave* Rabat, Morocco

- Counting sold products in a supermarket based on cameras using Hikvision, YOLOv7.
- Counting the Mattresses in the factory and the Warehouse using YOLOv5, YOLOv8, detectron2.
- Tracking object for counting using DeepSORT and StrongSORT.
- Labeling the data using bounding boxes and segmentation using LabelImg server and segment anything model (SAM).
- collecting, managing and storing data using Hikvision, AWS Sagemaker Notebooks, EC2 and AWS S3.
- Building a speech-to-text model for Moroccan TV show that can convert Moroccan Darija (a variant of Arabic spoken in Morocco) speech to English and french transcription using: whisper transformers.

**Data Scientist: Full Time / Development of graphical user interface for Skoda auto** 09 2022 – 11 2022  
*UptimAI* Prague, Czech Republic

- Create and Develop a graphical user interface GUI Using: QML, JavaScript, Python, PySide2, Qt Quick, Git.

**Computer vision intern / Computer Vision in Banking Industry** 03 2022 – 09 2022  
*Adria Business and Technology* Casablanca, Morocco

- french handwriting for check banking. Using OCR, craft, Pytorch, tensorflow, opencv, sklearn, skimage, flask, onnx, unicorn, keras, YOLOV5, EAST, ssd mobilenet v2, ctpn

**Computer vision intern / Computer Vision in Agriculture: plant diseases** 07 2021 – 09 2021  
*Euro med university of fez* Fez, Morocco

- Doing feature engineering, image pre-processing, data augmentation, transfer learning. Using: OpenCV and PILLOW.
- Built a classification model. Using: TensorFlow, Keras, VGG16, ResNet152, inceptionV3, Xception, inceptionResNetV2, EfficientNetB7, MobileNetV2.
- Created bounding boxes. Using LabelImg server based on Pascal VOC format and XML files and using Intersection over Union (IOU) for measure the performance of bounding box.
- Built an Object Detection model. Using YOLOV4, RCNN and Faster RCNN.
- Deployment in an application mobile IOS and Android. Using Flutter, Dart, Docker.

**Data science intern / Product Recommendation System** 08 2021 – 09 2021  
*Euro med university of fez* Fez, Morocco

- Scraped data from e-commerce website. Used: Selenium, BeautifulSoup.
- Developed a model to recommend the best products for the user using K-Means, KNN algorithms. Used Scikit-Learn.
- Developed a Dashboard for visualization. Used: Dash, Plotly.

## PERSONAL PROJECT

**Created Web application for Sentiment analysis in tweets using web scraping** 04 2021

- Implementation of BERT for sentiment analysis of tweets. Using: NLTK, Naïve-Bayes, Bert transformer.
- Extract new tweets from twitter, manage, index and stock scraped data in MongoDB atlas. Used Selenium, pyMongo.
- Built a web application and developed a Dashboard for visualization. Using: Flask, HTML, CSS, JavaScript, Dash, Plotly.

**Data Pipeline with Apache Airflow** 06 2021

- Built a pipeline and automated tasks Using: Microsoft Azure, Ubuntu, Putty, DAGs, PostgreSQL, Apache Airflow, PoweBI.

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## Conception and implementation of a GIS under R for the analysis of covid in the world

05 2021

- Spatial and temporal analysis of the distribution of death rates of total and new cases of coronavirus by country. Used: QGIS, R.
- Developed a Dashboard for visualization. Used: R, Shiny.

## ACTIVITIES

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IBM Big Data Engineer 2021, Certification	02 2022
HCIA-Big Data, Certification	01 2022
DeepLearning.AI, Certification	11 2021
UmojaHack Morocco: AIOX Sentiment Analysis Challenge by UmojaHack Africa. Hackathon	04 2020
UmojaHack Africa: Sendy Delivery Rider Response Challenge (INTERMEDIATE). Hackathon	04 2021
UmojaHack Africa: African Snake Antivenom Binding Challenge (ADVANCED). Hackathon	04 2022