



IMANE EL MISSAOUI


HEALTH DATA SCIENTIST

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 Paris, France

EXPERIENCE

Sorbonne University Computer Science Laboratory	Paris, France
DATA SCIENTIST APPRENTICE	Dec 2023 - Present
<ul style="list-style-type: none">Embedded AI Endoscopic capsule project :<ul style="list-style-type: none">Developed and Studied new protocols for the collection of medical data from clinical trials for the testing and validation of capsule prototypes.Designed and implemented a hybrid machine learning classification model that processes over 10 000 endoscopic images, automating colorectal polyp detection and classification and providing actionable healthcare insights.Designed and implemented a NoSQL database with separate dev and prod environments to manage data from endoscopic capsule trials, enabling scalable and efficient data collection for future research.Ankle Joint Inflammation Monitoring:<ul style="list-style-type: none">Built a multimodal database to track ankle joint inflammation, enhancing post-surgical monitoring and diagnostic tools for ligament injuries.Conducted statistical analysis and symbolic fusion of the data for the development of a diagnostic aid system for ankle ligament injuries and post-operative monitoring.Developed a real-time dashboard that processes and visualizes signals (e.g., ECG, PPG) from the database, displaying key metrics such as heart rate, SpO2, and stress levels, enabling more informed clinical decision-making.	
Lille Neuroscience and Cognition Center	Lille, France
DATA SCIENTIST INTERN	Mar 2023 - Aug 2023
Executed comprehensive analysis of 2,000+ MRI images, integrating machine learning and Topological Data Analysis to create a robust stratification model for improving parkinsonian patients outcome predictions.	
Academic Projects	
Masters Thesis : Built a knowledge graph using Neo4J and NLP, two innovative pipelines one based on ontology-driven entity extraction using the scispaCy library, and another one using a LLM(Llama3) to extract knowledge from unstructured text, without using a predefined ontology. Offering insights into how different methods can enhance our understanding of complex disorders like autism.	
Project Manager for Research Training: Analyzed the reproducibility of published research, ensuring rigorous scientific standards.	
Shiny Dashboard for Obstetrics Data: Created a dynamic dashboard for tracking and visualizing obstetrics data, improving visibility into maternal health trends over time.	
Dash Dashboard for Health Data science Market Analysis: Scraped online job postings and applied NLP clustering to classify key technologies and trends for data science roles.	

EDUCATION

Lille Faculty of Health Management and Engineering	Lille, France	2022 -2024
MASTER'S DEGREE IN HEALTH DATA SCIENCE		
University of Grenoble Alpes	Grenoble, France	2020-2022
BACHELOR'S DEGREE IN PHYSICS-CHEMISTRY		
Benguerir High School of Excellence	Benguerir, Morocco	2017-2019
UNIVERSITY FOUNDATION COURSE (MATH & PHYSICS)		
Jasmin High School	Sefrou, Morocco	2016-2017
SCIENTIFIC BACCALAUREATE (MATH)		
Passed with Honors, Merit Scholarship		

CERTIFICATIONS & TRAINING:
Data scientist Associate, R programming, Data Analysis with Python

OTHER

SKILLS				
Languages Python R SQL Latex Bash	Technologies Postgresql MongoDB Spark Airflow Git GCP Shiny PowerBI Neo4J	Technical skills Data management Cloud computing Big data technologies Database management Statistical analysis Machine learning Data visualization	LANGUAGES English: Fluent - C2 French: Bilingual Arabic: Native	INTERESTS Personal Development Fitness Traveling and volunteering Photography Art and graphic design