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## CERTIFICATES

- Supervised Machine Learning | Coursera
- Advanced Learning Algorithms | Coursera

## INTERESTS

### University clubs

- Treasurer at IT Club FSSM
- Head of the Finance and Social Investment Cell at IT Club FSSM

### Volunteering work

- Actively volunteered for two months at Centre Malaika Marrakech, an association dedicated to children with Down Syndrome

## Skills

- **Data preparation and analysis**
- **Machine Learning:**  
Regression/Classification models  
Clustering algorithms, Reinforcement learning ,Feature engineering
- **Deep Learning:**  
CNN, RNN, LSTM,LLMs
- **Natural Language Processing:**  
Text processing  
Sentiment Analysis  
Sequence-to-Sequence Models  
LLMs ...
- **BI:**ETL ,data visualisation...  
Tools:Tableau,power BI...
- **Big Data:**Hadoop,MapReduce,Spark
- **Database:**SQL,PL/SQL,NOSQL
- **Programming languages:**Python,R,C,C++...
- **Soft skills:**Teamwork,Leadership,  
Analytical skills,Problem solving,Adaptability
- **Operating systems :**Windows,Linux

## Languages

Arabic  
French  
English

# ILHAM BENMALOUK

## MASTER'S STUDENT IN DATA SCIENCE | M2 |

Master's student in Data Science with a strong passion for data analysis and machine learning. Proficient in Python programming, data manipulation, and predictive modeling. Practical experience solving real-world problems through academic projects and a previous internship. Eager, motivated, and committed to continuous learning to make a valuable contribution as a Data Science intern.

## EXPERIENCES

### Marine Data Science Internship

Prediction and Modeling of Fish Species Abundance Using Machine Learning and Deep Learning Algorithms

Institute of Research for Development (IRD), France

Duration: June 2023 - July 2023 (Two months)

- Developing a predictive model for fish abundance in a specific geographic area on a given date, despite a major challenge related to data scarcity
- Collaborated closely with experts in the field of fisheries to identify relevant features influencing fish abundance
- Actively researched relevant data sources to feed the prediction model, considering input from domain experts
- Utilized innovative data preprocessing techniques to make the most of available information despite data scarcity
- Implemented data scarcity management strategies, such as intelligent imputation and careful feature selection in collaboration with domain specialists
- Designed a robust predictive model using machine learning algorithms tailored to fishing data

## EDUCATION

- Since September 2022: **Master's in Data Science**  
**Faculty of science semlalia** Marrakech,Cadi ayyad University
- From 2019 to 2022: **Bachelor's degree in mathematics and computer sciences**  
**Faculty of science semlalia** Marrakech,Cadi ayyad University
- From september2018 to 2019: **High School diploma in mathematics option A**  
youssef Ben Tachfine High school Marrakech

## ACADEMIC PROJECTS

- **Revolutionizing Early Disease Detection: A Deep Dive into Medical Image Analysis** using Diverse Deep Learning Algorithms and Comparative Assessments.
- **Intelligent guidance chatbot for Moroccan students: Implementation of a Chatbot with Large Language Model (LLM) for Personalized guidance.**
- **Linguistic Exploration in the Twitter Universe: Fine-grained Detection of Sentiments, Emotions, and Sarcasm in French Tweets.**
- **Architecting Real-time Data Management in the Big Data Ecosystem with Spark Streaming.**
- **Implemented and deployed a precise model leveraging YOLO and Roboflow for the automatic detection of Moroccan license plates in both images and videos**
- **Conducted an in-depth study on bird abundance using BI technologies :Provided crucial data for avian population conservation and management strategies.**
- **Identifying the top influential nodes of a complex network using TOPSIS method and communities detection using clustering algorithm.**