



Youssef Mouraffa

Master's Degree in Information Processing

Master's graduate in Information Processing with a Computer Vision specialization. Strong background in algebra, statistics, and computer science. Experienced in underwater projects during an exchange semester at FH-Kiel. Eager to pursue a Master's in Data Science to apply data-driven insights to real-world challenges.

LANGUAGES

English: Fluent
French: Fluent
Arabic: Native
German: Basic Knowledge

CERTIFICATIONS

- YOLO: Custom Object Detection & Web App in Python - Udemy,
- MATLAB Onramp - MathWorks
- Python for Data Science, AI & Development - IBM
- Raspberry Pi Essential Training LinkedIn



LinkedIn



Github

>> Discover more on my LinkedIn and GitHub for additional projects and insights into my skills..

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EXPERIENCE

Data Scientist Intern | AUV Team Tomkyle

Mar 2023 - Sep 2023, Kiel, Germany

- Addressed computer vision challenges in underwater environments, improving image analysis from sonar and camera data for aquatic exploration.

IoT Intern | Orange Morocco in partnership with Google & EY

Jul 2022 - Sep 2022, Rabat, Morocco

- Collaborated with a 7-member cross-disciplinary team on the #tech4good initiative, winning Google's prize from 40 international contenders.

Intern | Information Laboratory, Université Hassan II

Apr 2021 - Jun 2021, Casablanca, Morocco

- Programmed a comprehensive system for monitoring and optimizing electrical consumption, featuring real-time cost tracking.

EDUCATION

Erasmus Exchange Program

Fachhochschule Kiel

March 2023 - July 2023, Kiel, Germany

- Completed advanced courses in Deep Learning, contributing to academic projects that emphasized teamwork and interdisciplinary collaboration.

Master's Degree in Data Processing

Université Hassan II

September 2021 - March 2023, Casablanca, Morocco

- Specialized in Machine Learning, Deep Learning, and Internet of Things applications.
- Active trainer and member of the university's IoT and Robotics Club, leading workshops and collaborative projects.

Bachelor of Science in Electronics Engineering

Université Hassan II

September 2017 - July 2020, Casablanca, Morocco

- Developed a diverse technical foundation, including Internet of Things (IoT), statistical analysis, programming, physics, and core engineering principles.

TECHNICAL SKILLS

- **Data Science:** Proficient in Python, with experience in Pandas, NumPy, Matplotlib, and Streamlit for data analysis and visualization.
- **Machine Learning:** Practical skills in TensorFlow/Keras, Scikit-Learn, OCR, and YOLO for machine learning and computer vision applications.
- **Programming:** Solid background in C/C++, SQL, and use of Git for version control.
- **Tools & Platforms:** Familiar with MATLAB/Simulink, OpenCV, and AWS for technical computing, image processing, and cloud services.
- **Mathematics & Statistics:** Strong understanding of linear algebra, statistics, and probability, underpinning all data science tasks.
- **Operating Systems:** Comfortable with Linux command-line operations.
- **IoT:** Engaged in IoT system design, reflecting knowledge of interconnected devices and applications

PERSONAL PROJECTS

- Real-Time Object Detection Web App with YOLOv5 and Streamlit
- Comprehensive Perceptron Implementation from Scratch with Mathematical Insights
- Zhang's Camera Calibration: Lens Distortion Correction with Math Insights
- CIFAR10 Image Classification: Exploring CNNs vs. ANNs in TensorFlow