

Mohamed Yassine KASSEM

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PROFILE

Data Scientist and full-stack web and mobile developer in my 3rd year of the Engineering Cycle in Data Science, dynamic, curious, and autonomous. I am currently enhancing my skills in Data Science and software development. I have experience in programming and seek opportunities to apply my skills in innovative projects.




EDUCATION

- **ESPRIT UNIVERSITY** 2022 - Present
Engineering Degree in Data Science Ariana, Tunisia
- **ISTIC UNIVERSITY** 2019-2022
Bachelor's degree in Computer Science and Software Engineering Ben Arous, Tunisia

PROFESSIONAL EXPERIENCE

- **Swiss Premium Negoce (SPN)**  June - August 2024
Data Science Intern Lac Of Tunisia, Tunisia
Tools: [MobileNetV3, ResNet-50, tensorflow, Pytesseract, PaddleOCR, LLMs, Mistral-7B, llama3-8b, Transformers]
 - Developed a web application automating the extraction of fines, aiding agents in identifying violators.
 - Implemented image processing techniques such as ResNet-50, Autoencoders, and Real-ESRGAN
 - Utilized information extraction tools like Surya OCR and OCR Space to automate data retrieval processes.
 - Applied Named Entity Recognition (LLMs) to identify offenders from extracted data.
 - Integrated the system, using FastAPI for the back-end MongoDB and Next.js for the front-end.
- **Sotrafer**  June - August 2023
Full-Stack Web Developer Intern Tunis, Tunisia
 - Developed a full stack recruitment web application.
 - Implemented the back-end using MySQL and Symfony to manage candidate data and evaluation processes.
 - Integrated candidate evaluation algorithms to identify and rank top talents effectively.
- **Medianet**  Jan - Jun 2022
Full-Stack mobile Developer Intern Tunis, Tunisia
 - Developed a mobile application, designed to simplify the internship search process for students.
 - Implemented features for CV creation and internship search, with automatic recommendations based on AI.
 - Enabled companies to post internship offers and automated the candidate selection process.
 - Utilized Flutter and Bootstrap for the front-end, and integrated the back-end using MongoDB, Node.js, and Flask.

ACADEMIC PROJECTS

- **Object Detection in Satellite Imagery** Mar - May 2024
Technologies & Models: [Flask, Bootstrap, YOLO V5, YOLO V8] 
 - Reproduced a research paper on object detection using an adaptive Mask-RCNN model on the VHR-10 dataset.
 - Developed a web application for deploying object detection models to facilitate seamless model deployment.
- **Intrusion Detection System (IDS)** Oct - Dec 2023
Technologies & Tools: [KNN, SVM, Decision tree, k-means, Pandas, scikit-learn, matplotlib, NumPy, GitLab, Docker] 
 - Reproduced results from two research papers on intrusion detection using the NSL-KDD dataset.
 - Developed and deployed a web application for the KNN model using Flask and bootstrap.
 - Implemented a CI/CD pipeline for automating the process and deploying the application on the cloud.
- **Cross-platform Freelance Application** Jan - May 2023
Technologies & Tools: [JavaFx, CodeNameOne, Symfony, GitLab, Docker] 
 - Designed and developed a desktop, web, and mobile application for freelancing.

SKILLS

- **Programming Languages:** Java, CodeNameOne, JavaFx, Python, R, C, SQL/PISQL, JavaScript
- **Frameworks:** Flask, Flutter, NodeJS, FastAPI, Symfony, Next.js 14, ReactJS, Bootstrap
- **Database Systems:** MongoDB, MySQL, Supabase
- **Data Science & Machine Learning:** KNN, SVM, Decision Tree, Linear Regression, CNN, RNN, Autoencoders
- **DevOps & Version Control:** Git, GitLab, Docker, CI/CD, Jenkins
- **Methodology:** Agile Scrum, Team Data Science Process, Cross Industry Standard Process (CRISP-DM)

CERTIFICATIONS

- **IBM Certificate (2022):** Data Engineer-Big Data
- **CCNA (2023):** Switching, Routing, and Wireless Essentials
- **NVIDIA (2024):** Building Transformer-Based Natural Language Processing Applications
- **Certificate of Participation (2024):** 11th Edition of the Bal Des Projets d'Esprit

LANGUAGES

- English: **Bilingual**
- French: **Native**
- Arabic: **Native**