Rami Ben Hmida

Machine Learning Engineer
Python & Cloud

Germany
27 years old
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Skills

Programming: Python, SQL, C++, Java, Kotlin, JavaScript, .NET, HTML, CSS

ML/Big Data: PyTorch, TensorFlow, scikit-learn, Spark, Databricks

Tools/Frameworks: Docker, Git, React, SpringBoot, Angular

Cloud & Data: AWS, Azure, Power BI, JSON, XML

Certificates

AWS Certified Machine Learning Engineer Associate • 2025

AWS Certified Cloud Practitioner • 2025

TELC C1 German Language Certificate

365DataScience Python • Advanced

365DataScience SQL • Advanced

Education

Technical University of Dortmund
2020 - 2024
B.Sc. Computer Science •Focus on Statistics Final Grade: 2.7

Gymnasium Tunisia 2017 - 2020
High School Diploma •
Mathematics Grade: 2.3

Languages

German • TELC C1
English • Business
Arabic • Native
French • Advanced

Hobbies

Soccer
Music

Experience

Technical University of Dortmund 08/2024 – 07/2025

• Developed a deep learning model for ship detection and classifi- cation achieving over 90% accuracy

• Used precision, recall, F1-score, and confusion matrix to correc- tly evaluate model performance and avoid misleading accuracy.

• Used C++ multithreading to speed image preprocessing and reliably handle large datasets

• Built a web scraper growing dataset to over 5000 images, improving model accuracy by 20%

• Optimized a YOLO-based segmentation model via hyperparame- ter tuning and data augmentation, reducing error rate by 25%

• Technologies: Python (PyTorch, TensorFlow, OpenCV), C++, Docker, Git

Projects

Anomaly Detection Platform 2025
Personal Project Laravel + React + Isolation Forest

• Developed a full-stack web app for presence anomaly detection (Isolation Forest, scikit-learn) with REST API and a real-time React dashboard

• Enabled real-time monitoring and anomaly alerts by integrating the ML service behind REST endpoints

• Built Docker images and automated deployments with Docker Compose

• Technologies: Python (PyTorch, TensorFlow), React, Laravel, Docker, Git

Academic Experience

Bachelor Thesis: Real-time Acoustic Signal Detection Technical University of Dortmund 01/2024 - 06/2024 Final Grade: 1.0

• Built real-time ship acoustic signal detection and classification using noise reduction and FFT

• Simulated intention recognition to improve maritime communi- cation and safety

Academic Projects Dortmund, Germany
Technical University of Dortmund 2020 - 2023

• Software (Kotlin, UML), Hardware (VHDL, MIPS), Algorithms (C++, Python)