

GHAZI BEN GHOZLEN

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Research Interests

Aspiring AI researcher with hands-on experience in **computer vision**, **medical image analysis**, and **deep learning**. Proficient in designing and implementing CNN-based architectures for object detection and semantic segmentation tasks. Seeking a **Master's research position** to contribute to cutting-edge research in AI/ML.

Education

Engineering Degree in Computer Science Institut International de Technologie (IIT), Sfax	2025 – Present
Intelligent Systems Engineering (MR-ISI) ENET'Com	2024 – Present
B.Sc. Computer Science Institut Supérieur d'Informatique et Multimédia de Sfax (ISIMS)	2023 – 2024
Cycle Préparatoire Intégré en Informatique Institut Supérieur d'Informatique et Multimédia de Sfax (ISIMS)	2021 – 2023
Baccalauréat Sciences Expérimentales Lycée 15 Novembre 1955, Sfax	2021

Internships

Research Intern – Medical Image Analysis CNRS Centre de Recherche, Sfax <i>Supervisor: Wael Werda</i>	Jan 2025 – Present
• Developed cardiac MRI segmentation pipelines using U-Net and YOLO on ACDC dataset • Automated extraction of clinical measurements (ejection fraction, myocardial mass) from segmentation masks • Achieved state-of-the-art Dice scores through architecture optimization and augmentation strategies	2023 – 2024

Software Development Intern

CliniSys, Tunisia	2023 – 2024
• Developed HR workflow management web application using Java 8, Spring Boot, React, SQL Server	

AI/ML Projects

Brain Tumor Detection – YOLOv8, RT-DETR	2024
• Built automated brain tumor detection comparing CNN-based (YOLO) vs Transformer-based (RT-DETR) architectures • Implemented preprocessing pipelines: skull stripping, intensity normalization, data augmentation	
Tomato Leaf Disease Detection – ESP32-CAM, YOLO	2024
• Designed edge-AI solution with ESP32-CAM achieving real-time inference (<100ms) for 9 disease classes • Trained and quantized models using TensorFlow Lite for embedded deployment with 92%+ accuracy	

House Price Prediction – XGBoost, Django REST API

2023
• Built end-to-end ML pipeline with ensemble methods (XGBoost, Random Forest, Stacking) deployed as web API

Technical Skills

Deep Learning:	PyTorch, TensorFlow/Keras, Ultralytics (YOLO), Hugging Face, U-Net, RT-DETR
ML/CV:	Scikit-learn, XGBoost, OpenCV, Object Detection, Semantic Segmentation, Image Classification
Languages:	Python, Java, C, Rust, PHP
Tools:	Git, Docker, Linux, Jupyter, Google Colab, TensorFlow Lite, ESP32/Arduino
Web:	Django, Spring Boot, React, Next.js DB: MySQL, PostgreSQL, MongoDB

Languages

Arabic (Native) | French (B2/C1) | English (B2/C1)