

MOHAMED AZIZ SRIDI

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PROFILE

Final-year Data Science & Machine Learning engineering student with experience building multimodal ML, ML systems, retrieval-augmented software, computer vision, and clinical AI prototypes.

EDUCATION

Polytechnic School of Sousse 2024 - 2027 (expected)
Engineering Degree in Data Science & Machine Learning, master's-equivalent qualification (Bac+5).

ISSAT Sousse 2021 - 2024
Bachelor's Degree in Computer Science. Final-year project grade: **19/20**.

EXPERIENCE

MyStay | Co-founder and Developer Apr 2026 - Present

- Led most development of a hospitality platform using Flutter, a TypeScript NestJS/PostgreSQL backend, and a React/Vite dashboard. Delivered hotel onboarding and staff training.
- Developed a RAG concierge combining Qdrant semantic retrieval with live SQL validation to answer hotel questions and create reservations. The concierge is currently in testing.
- The separate Marhaba Palace pilot recorded 300+ guest accounts, 18 reservations, and 66 guest issues and service requests in under one month.

PURA Solutions | Software and AI Developer Feb 2024 - Feb 2025

Intern, Feb - Jun 2024 | Part-time developer, Jul 2024 - Feb 2025

- Deployed Flask/REST/SQL backends for scheduling and patient management, integrating AI services into clinical workflows.
- Developed a dental X-ray pipeline with Faster R-CNN region detection, ResNet classification of four dental anomalies, and Grad-CAM explanations.
- Developed a BLIP2-OPT/CLIP vision-language prototype, plus OCR-based medical-document extraction for longitudinal patient tracking.

ARSII | Research Intern - Multimodal ML and MLOps Aug 2026

- Built a fault-detection research pipeline combining process-sensor time series and Raman spectroscopy. Compared XGBoost, GRU/LSTM, spectral ResNet-TCN, and multimodal models using batch-separated validation.
- Integrated Ray for distributed training and inference, MLflow for experiment and model tracking, and Streamlit monitoring for PSI data drift and model performance.

RESEARCH

FCAL | Computer Vision Research, Polytechnic School of Sousse 2026 - Present

- Designed and implemented a foreground-supervised training objective to reduce image classifiers' reliance on background shortcuts without adding inference operations or parameters.
- Across three paired CUB ResNet-50 seeds, improved mean accuracy over 13 background interventions by 3.65 ± 1.37 percentage points over cross-entropy baselines. Manuscript in preparation.

TECHNICAL SKILLS

Programming & applications: Python, SQL, TypeScript/JavaScript, NestJS, React, Flask, REST APIs.

Machine learning & systems: XGBoost, Ray, MLflow, PostgreSQL, Qdrant.

Vision, language & multimodal AI: Faster R-CNN, ResNet, Grad-CAM, RAG, semantic retrieval, BLIP2-OPT, CLIP, OCR.

TRAINING & LANGUAGES

NVIDIA training (2024): Deep Learning, Predictive Maintenance, Transformer-Based NLP.

Languages: Arabic (native), English (fluent), French (intermediate).