Montaha Rebhi

Second-year Data Science Engineering Student

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Summary — Computer And Data science Engineering student with hands-on experience in deep learning applications , ML model building and Flutter development. Skilled in mobile app design, AI integration, and collaborative project delivery.

Education

ESPRIT – Private School of Engineering and Technology **2023 – 2026**

- Engineering degree in Data science and Software developement

ISET'COM – Higher Institute of Technological Studies in Communications **2020 – 2023**

- Bachelor's in Information and Communication Technologies
- Specialization: Networks and Telecommunications

Abou Kacem Chebbi High School,Tunisia, Kairouan **2020**

- Baccalaureate in Mathematics

Experience

Data Science Intern – Esprit Tech **June 2025 – August 2025**

- Topic: *LLMs for Real Estate Price Prediction in Tunisia*.
- Comparative study of language models (GPT, LLaMA, Falcon...) for real estate data analysis.
- Data collection and preprocessing from Tunisian real estate websites (web scraping, pandas).
- Implementation of an automated text processing pipeline for price prediction.
- Team collaboration in a research-driven environment under Esprit Tech supervision.

Flutter Engineer and team leader – Wapply (Paris-based Startup) **Aug 2024 – Feb 2025**

- Led the development of scalable mobile components for a job recruitment platform using Flutter.
- Enhanced UI/UX by integrating advanced Flutter widgets and animations to streamline candidate/entreprise experience.
- Collaborated with cross-functional teams to deliver updates aligned with product goals and timelines.
- Collaborated with Apple on UI/UX design and functionality to meet App Store requirements and ensure successful publication.

Flutter Developer Intern – Wapply (MidlJob) **June 2024 – Aug 2024**

- Contributed to building key modules of the WEapply mobile application using Flutter and Dart.
- Participated in agile sprints, writing clean and maintainable code under mentorship.
- Worked on user authentication, dynamic forms, and RESTful API integration.

Graduation Internship – TELCOTEC Tunisia **Feb 2023 – June 2023**

- Designed and developed a mobile facial recognition system using Flutter and Python.
- Integrated back-end services with Node.js and MongoDB to manage user data and facial features.
- Implemented real-time facial recognition with OpenCV and FaceRecognition library.

Technician Internship – CERT LABS **Jan 2022 – Feb 2022**

- Performed electromagnetic compatibility (EMC) testing on SAGEMCOM smart electricity meters.
- Assisted in generating compliance reports and supported engineers in analyzing measurement data.

Projects

Lung Cancer Detection **Feb 2025 – June 2025**

- Building a deep learning desktop application with GUI for early-stage lung cancer detection from CT scans.
- Detects nodule size and location before classifying for cancer presence; if cancer is detected, the type is also classified.
- Employed three specialized deep learning models: U-Net for lung nodule segmentation, DenseNet for binary cancer classification, and EfficientNetB3 for cancer type classification.
- GUI designed for usability with drag-and-drop scan uploads and real-time prediction feedback.
- Generates an automatic medical report; doctors can add feedback directly into the system.
- Designed to augment, not replace, medical professionals — feedback is stored in the database to continuously improve model accuracy.
- Leveraging TensorFlow for model training, Flask for API deployment, and Python for image processing.
- Deliverables include not only the application but also a detailed technical report and a scientific research paper.
- Selected to represent the class in the PI-DS-ESPRIT Ball competition, showcasing top academic projects.

Brain Tumor Classification **Feb 2025 – March 2025**

- Implemented a deep learning model to classify brain tumors from MRI images
- Used CNNs to detect and categorize tumor types, aiding in early diagnosis and treatment planning.

Churn Prediction Model **Jan 2025 – Feb 2025**

- Developed a machine learning model to predict customer churn based on behavioral and transactional data.
- Used Python and scikit-learn to preprocess data, train and evaluate multiple models (Random Forest, Logistic Regression, XGBoost).
- Achieved high accuracy and recall metrics; visualized results using Matplotlib and Seaborn.
- Project developed in alignment with a scientific research paper provided by instructors.

LexiLearn (ESPRIT) **Feb 2024 – May 2024**

- Designed a hybrid educational platform tailored to support dyslexic students through visual aids and adaptive learning.
- Developed a desktop application using JavaFX for interactive exercises.
- Built a web interface with Symfony for content management and student progress tracking.
- Integrated MySQL for structured data storage and user profiles.

Smart Irrigation System **Oct 2022 – Jan 2023**

- Developed an embedded system integrated with moisture and temperature sensors to automate irrigation.
- Created a mobile application for real-time monitoring and control of the system.
- Enabled wireless data transmission and alert notifications to optimize water usage.
- Project combined microcontroller programming with mobile development to showcase IoT principles.

Skills

- **Languages:** Python, R, C/C++, Java, JavaScript, PHP, Dart
- **Frameworks:** Django, FastAPI, TensorFlow, Scikit-learn, Node.js,Flutter, FlutterFlow, Streamlit, Symfony, Springboot,
- **Databases:** SQL(Postgres, MySQL), NoSQL(MongoDB)
- **Tools:** Git, Docker, AWS, GCP APIs, Hugging Face, Jupyter, MLflow
- **Data Science:** Machine Learning, Deep Learning, NLP, Data engineering, GenerativeAI
- **Core Strengths:** Problem Solving, Teamwork, Communication, Time Management, Adaptability

Certifications

- Nvidia: Applications of AI for Anomaly Detection
- Cisco: CCNA 1, CCNA 2, CCNA 3, Cybersecurity Basics
- TOEIC: English (Level B2)
- Voltaire Certificate: French (B2 Level)

Languages

- **Arabic:** Native
- **French:** Fluent
- **English:** Fluent
- **German:** Elementary

Community Involvement

- Media Manager: Tunivisions Club ISET'COM
- Developer: CPU Club ISET'COM

Interests

- **Playing music:** guitar and violin
- **Former basketball player**