BENCHAOU Nada

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Seeking a 2026 Final-Year Internship in Digital Health — Bridging AI and Engineering to Transform Healthcare Practices

ABOUT ME

Final-year engineering student in Digital Health, passionate about innovation and emerging technologies in healthcare. Skilled in artificial intelligence, machine learning, deep learning, web application development, and database management. Curious, proactive, and results-oriented, with a strong commitment to designing reliable and impactful digital solutions to transform healthcare practices.

EDUCATION

École Supérieure Mohammed VI d'Ingénieurs en Sciences de la Santé — Casablanca, Morocco
Engineering Cycle in Digital Health (3rd Year) — *2023 — 2026*
- Relevant Courses: Artificial Intelligence, Machine Learning, Data Mining, Medical Imaging

École Supérieure Mohammed VI d'Ingénieurs en Sciences de la Santé — Casablanca, Morocco
Preparatory Classes in Biomedical Engineering — *2021 — 2023*

Escuela Técnica Superior de Arquitectura, Universidad de Granada — Granada, Spain
First Year of Architecture — *2020 — 2021*

Selectividad — Granada, Spain
Spanish Scientific Baccalaureate Equivalent — *2019 — 2020*

Lycée Omar Ibn Abdelaziz — Oujda, Morocco
Scientific Baccalaureate — *2018 — 2019*

EXPERIENCE

Technical Internship — July – August 2025
CHU Oujda, IT and Information Systems Department — *CHU Oujda, Morocco*
- Developed an Automatic Diabetic Retinopathy Detection System based on Deep Learning

Observation Internship — July 2024
CHU Oujda, Biomedical Department — *CHU Oujda, Morocco*
- Observed surgeries, performed respirator self-tests, and assisted in equipment maintenance
- Visited intensive care, neonatology, and radiology departments, and assisted in the installation and configuration of an MRI system

PROJECTS

Eklia – AI Assistant for Radiologists: Brain MRI Detection & Automatic Report Generation

- Designed an intelligent system combining tumor classification, 3D segmentation, automated medical report generation from multimodal MRIs, and developed a user-friendly web interface for report visualization, validation, and editing.
- Integrated clinical and imaging data using multimodal fusion, achieving a Dice score > 0.85.

Diabetic Retinopathy Detection with Double CBAM

- Designed a retinal image classification model integrating a Double CBAM attention module to enhance discriminative feature extraction.
- Deployed a complete pipeline including preprocessing, training, metric monitoring, and model saving for future integration into a screening platform.

Skinia – AI-Based Skin Cancer Detection

- Designed a CNN model to classify multiple types of dermatological lesions, including preprocessing and optimization pipeline
- Developed a responsive interface enabling patient follow-up and medical recommendations

DonSang – Intelligent Donor/Recipient Matching Platform

- Designed an SQL database centralizing medical and geographic profiles of blood donors and recipients
- Implemented a Python matching algorithm optimized by blood group compatibility and geographic proximity
- Developed a dual-session web interface: donor space (appointments, history) and professional dashboard (transfusion demand management)

Breast Cancer Data Analysis Project

- Developed a machine learning model for analyzing and classifying breast tumors, including medical data extraction and result visualization

VOLUNTEER EXPERIENCE

Associations and Volunteering   2022 — 2025

- Volunteer at Association Tadamoun Al Amal: Participated in charity actions during Ramadan
- Organized a humanitarian action with the University Student Union (BDE) in 2020 to help homeless people

SKILLS

Technical

- Data Science: AI, Machine Learning, Data Mining
- Programming Languages: Python, C, C++, MATLAB, PHP
- Databases: MySQL, SQL, Firebase
- Web Development: HTML, CSS, JavaScript
- Office & Tools: Office 365

Soft Skills

- Analytical thinking and critical reasoning
- Interdisciplinary collaboration
- Creativity and innovation mindset
- Rigor and attention to detail

LANGUAGES

- Arabic – Native
- French – Fluent
- English – Upper-Intermediate
- Spanish – Intermediate
- German – Basic

INTERESTS

- Artificial Intelligence
- Robotics
- Digital Health Technologies
- Travel

Online Portfolio — Projects & Achievements