

BENCHAOU Nada

 +212 6 82 29 11 14 |  Casablanca, MA |  bnadabenchaou@gmail.com |  BNAD-A |  Nada BENCHAOU

Digital Health Engineering Student – At the intersection of AI and medical engineering, I code the healthcare of tomorrow.

ABOUT ME

Third-year student in digital health engineering, I am deeply inspired by the opportunities offered by emerging technologies. My journey allows me to explore not only digital innovations transforming the medical sector, but also any form of technological progress that pushes the boundaries of what is possible. Always curious and motivated, I seek to contribute to pioneering projects shaping the future, particularly at the crossroads of healthcare and innovation.

EDUCATION

Mohammed VI Higher School of Health Sciences Engineers 3rd year – Digital Health Engineering Cycle	Casablanca, Morocco 2023 — 2026
• Relevant coursework: Artificial Intelligence, Machine Learning, Data Mining, and Medical Image Processing.	
Mohammed VI Higher School of Health Sciences Engineers Preparatory Classes in Biomedical Engineering	Casablanca, Morocco 2021 — 2023
Escuela Técnica Superior de Arquitectura, Universidad de Granada First Year of Architecture	Granada, Spain 2020 — 2021
Selectividad Equivalent to Spanish Scientific Baccalaureate	Granada, Spain 2019 — 2020
Omar Ibn Abdelaziz High School Scientific Baccalaureate	Oujda, Morocco 2018 — 2019

EXPERIENCES

Observation Internship CHU Oujda, Biomedical Department	July 2024 CHU Oujda, Morocco
• Operating room tour, ventilator self-tests and equipment maintenance. • Visits to intensive care, neonatology, and radiology units; contributed to MRI installation and operating room configuration.	
Technical Internship CHU Oujda, IT and Information Systems Department	July – August 2025 CHU Oujda, Morocco
• Development of an Automatic Diabetic Retinopathy Detection System based on Deep Learning.	

PROJECTS

Eklia – AI Assistant for Radiologists: Brain MRI Detection & Automatic Report Generation	
• Design of an intelligent system combining tumor classification, 3D segmentation, and automated medical report generation from multimodal MRIs. • Integration of clinical and imaging data via multimodal fusion, achieving a Dice score > 0.85. • Development of an intuitive web interface assisting radiologists in visualization, validation, and report editing.	
Skinia – AI-Based Skin Cancer Detection	
• Designed a CNN model to classify multiple dermatological lesion types with preprocessing and pipeline optimization. • Developed a responsive interface enabling patient monitoring and medical recommendation.	
DonSang – Intelligent Donor/Recipient Matching Platform	
• Designed an SQL database centralizing medical and geographical profiles of blood donors and recipients. • Implemented a Python matching algorithm optimized by blood groups and proximity. • Developed a dual-session web interface: donor space for appointments, follow-up, and history; professional dashboard for transfusion needs management.	

AI Mental Health Chatbot

- AI-based chatbot enabling empathic interaction for mental health support, integrating emotion recognition and reinforcement learning.

Breast Cancer Data Analysis Project

- Developed a Machine Learning model for breast tumor analysis and classification, including medical data extraction and results visualization.

IoT Multiparametric Health Monitor

- Designed an IoT system to monitor vital signs with biomedical sensors and real-time visualization on mobile and web interfaces.

CV Portfolio

- Built a personal portfolio in React.js with dark mode and interactive design.
- Hosted on Vercel with continuous deployment.

EXTRACURRICULARS

Associations & Volunteering

2022 — 2025

- Volunteer at Association Tadamoun Al Amal: contributed to charity actions during Ramadan.
- Organized a humanitarian campaign with the University Student Council in 2020 to support the homeless.

SKILLS

Software

- 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
- Attention to detail and rigor

LANGUAGES

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

INTERESTS

- Artificial Intelligence
- Robotics
- Healthcare Technologies
- Travel