

Elyes Thabet

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Objective

Biomedical engineering student with a passion for AI, machine learning, and sustainability-focused solutions. Dedicated to leveraging innovative technologies to address challenges in healthcare and industrial sustainability.

Education

Higher Institute of Medical Technologies of Tunis, El Manar University

Biomedical Engineering (2022–Present)

Technical Skills

- **AI & Machine Learning:** Gen-AI development, LLM training and deployment, 3D modeling for healthcare applications.
- **Medical Imaging Techniques:** Practical knowledge of MRI scanners, CT scans, ultrasound machines, and other medical imaging technologies, including imaging protocols and machine operations.
- **Web Development:** ReactJS, Flask, backend/frontend integration.
- **Programming:** Python, C++.
- **Medical Devices and Instrumentation:** Familiarity with advanced diagnostic and monitoring devices, including calibration and performance assessment.
- **Tools & Platforms:** Microsoft Azure, Git/GitHub.
- **Languages:** Arabic (Native), English (Fluent), French (Fluent), German (Beginner).

Experience

Research and Development Intern

AI4U Research Unit – Tunis, Tunisia

Jul 2024 – Sep 2024

- Developed an advanced multimodal chatbot to assist in managing epilepsy and Alzheimer's disease.
- Fine-tuned a large language model (LLM) on medical datasets and integrated text/image data for accurate, AI-driven medical insights.
- Contributed to cutting-edge healthcare AI technology while gaining expertise in multimodal LLMs.

Communication Lead – GDSC (2023)

Google Developer Student Clubs – Higher Institute of Medical Technologies of Tunis

- Led communication efforts and organized workshops, hackathons, and other extracurricular activities.
- Collaborated within the core team to build a vibrant learning environment and engage students in technical and non-technical events.

IEEE SB and EMBS Chapter Member (2024)

Higher Institute of Medical Technologies of Tunis

- Joined IEEE SB and the EMBS Chapter to contribute to biomedical engineering initiatives.
- Participated in professional development and collaborative activities to enhance technical knowledge and networking.

Projects and Achievements

Optibuddy Project (2024)

- Created *Optibuddy*, an AI-powered platform balancing operational efficiency and environmental sustainability.
- Achieved **Top 3** in Moovjee 2024, IEEE AICSSA, and SMU AI for Sustainability.
- Deployed prototype: optibuddy.netlify.app.

Intersign Project (2024)

- Designed a desktop app with a 3D avatar translating spoken language into sign language to assist deaf individuals.
- Reached the semi-finals in the *A2SV Global Competition AI for Impact Hackathon*.

SustainableMinds Hackathon (2023)

- Won 1st place and Innovation Prize with a water recycling system integrating sustainable solutions for buildings.

MSB Hackathon for Gen AI in Healthcare (2023)

- Developed a 3D modeling solution for MRI scans to visualize drug diffusion, improving healthcare insights.

Portfolio Website

- Built from scratch using ReactJS, showcasing web development expertise.

Certifications

- **Mathematics for Machine Learning and Data Science** (Coursera).
- **AI Developer Professional Certificate** (Coursera).

Interpersonal Skills

- **Leadership:** Guided teams in multidisciplinary projects and competitions.
- **Teamwork:** Contributed effectively to diverse team dynamics in academic and extracurricular contexts.
- **Problem-Solving:** Proven ability to identify challenges and deliver innovative solutions.