Mahdi Chekir

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SUMMARY

I am an ICT engineering student at SUPCOM with expertise in machine learning and Generative AI. I ranked 10th in the national pre-engineering exam and am currently pursuing a degree in ICT Engineering, supported by a strong foundation in advanced software development from my studies in Computer Science.

Education

Higher School of Communication of Tunis   *Sept 2023 – Present*
ICT Engineering Degree
- Relevant Coursework: Big Data, Cloud Computing, Artificial Intelligence, UML and Networking.

Preparatory Institute for Engineering Studies of Monastir   *Sept 2021 – Jun 2023*
Pre-Engineering Studies
- Maths - Physics: Ranked 10/1200

Pioneer high school of Monastir   *Sept 2017 – Jun 2021*
Secondary Education
- Experimental Sciences Baccalaureate

Experience

Insightfull.pro   *Jul 2024 – Aug 2024*
DevOps intern
- Learned the basics of Docker, including images, containers, and related concepts.
- Created several Docker images for existing projects to facilitate future deployment.
- Developed strong teamwork skills, adhered to deadlines, and gained valuable experience working under the guidance of senior engineers.

Projects

Food Classification Project   *Nov 2024*
- Designed and trained a Convolutional Neural Network (CNN) with PyTorch to accurately classify food images across multiple categories.

Full-Stack Health & Fitness Web Platform: *Dec 2024*
- Designed and built a full-stack web platform promoting healthy living, featuring personalized workouts, nutrition guidance, motivational content, and an integrated e-commerce store.

AI-Powered Smart Navigation App   *Feb 2025 - Present*
- Developed a Flutter mobile app integrating OpenStreetMap (OSM) for real-time navigation, implementing Dijkstra's algorithm and dynamic route optimization based on live traffic conditions.

Multimodal AI Chatbot with Web Search and Voice Input   *Mar 2025*
- Developed a conversational AI assistant with Streamlit, integrating voice and text recognition, Groq's Gemma 2 model, LangChain, and real-time web search for dynamic and up-to-date user interactions.

AI-Powered Math Problem Solver and Knowledge Assistant   *Mar 2025*
- Built a Streamlit app integrating Groq's Gemma 2 model with LangChain, enabling math problem solving, logical reasoning, factual retrieval, and step-by-step solution generation through multi-tool agents and Wikipedia search integration.

Skills

Programming Languages: Pyhton, C++, C, JavaScript, Dart

Web Technologies: HTML, CSS, Node.js , Express , Laravel

Database Systems: Neo4j, ChromaDB, Qdrant, FAISS, MySQL, Firebase, MongoDB

Data Science & Machine Learning : PyTorch, LangChain, Numpy, Pandas

DevOps & Version Control: GitHub Actions, Docker

Competitions

2nd Place – ZEN Challenge, IEEE TSYP Competition *Nov 2024*
IEEE Sup'Com Student Branch

- Developed a virtual try-on mobile app for clothing stores, allowing users to visualize outfits on themselves and enhance their shopping experience.

2nd Place – CAS Challenge, IEEE TSYP Competition *Nov 2024*
IEEE Sup'Com Student Branch

- Built a smart home prototype using Arduino, cardboard, and plastic, with real-time control and automation via a custom mobile app.

AI Anatomy Hackathon *Apr 2025*
Google Developer Student Club - Sup'Com Tunisia

- Developed an NLP-powered model that emulates a medical expert by analyzing patient condition descriptions and accurately answering related diagnostic questions.

Volunteering

Vice-president *Jul 2024 - Present*
Sup'Com Junior Entreprise

- Managing quality standards and process optimization.

Active member *Oct 2023 - Present*
IEEE Sup'Com Student Branch

- Assisting with technical challenges and supporting events organization and execution.

Additional Informations

Languages: Arabic (Native), English (B2), French (B2), Spanish (A1)