Mahamat Issa CHOUEB
Data Scientist | Machine Learning Researcher | AI Engineer

✉ chouebmahamat@yahoo.fr   🏠 Trento, Italy

👋 Profil

Passionate Data Scientist and Researcher with expertise in deep learning, data engineering, and AI. Skilled in developing scalable ML models, data pipelines, and behavioral analytics. Experienced in Python, PyTorch, and cloud platforms (AWS, Azure, Snowflake).

💼 Professional experience

Researcher
Since Dec. 2024 | **University of Trento** Trento, TN, Italy

- Conducting research on digital twins and behavioral data analysis for human-centered AI systems.
- Developing machine learning pipelines for motion understanding and synthetic data generation.
- Contributed to research publication and reproducibility using PyTorch (paper accepted on EUVIP2025)

Data Scientist
May 2024 - Nov. 2024 | **ATOMIC-IT PRO** Qulaybiyah, NB, Tunisia

- Designed and deployed ML models that **reduced data processing workloads by 15%**.
- Built dashboards and visual analytics for stakeholders using **Python**.
- Automated reporting pipelines to improve data communication efficiency across teams.

Data Scientist researcher
Apr. 2022 - Nov. 2022 | **LASMAP** Tunis

- Implemented **Physics-Informed Neural Networks (PINNs)** for structural health monitoring.
- Enhanced predictive accuracy vs. baseline models by **50%**.

Intern
Mar. 2020 - Jun. 2020 | **Research team in intelligent machine (RTIM) at ENIG-Lab** Gabes

- Developed an OCR pipeline using **OpenCV, Tesseract, and DFS** for scratch recognition.
- Improved recognition accuracy by **85%** using supervised learning classifiers.

🎓 Education

M2 Data Science and Smart Services
Sept. 2021 - Nov. 2022 | **ISTIC** Borj Cedria, Tunisia

M1 Robotics, Informatics and Communications Systems
Sept. 2020 - Jun. 2021 | **ISTIC** Borj Cedria, Tunisia

Bachelor degree in Computer Science
Sept. 2017 - July 2020 | **Faculty of sciences of Gabes** Gabes

🎗 Voluntary experience

Treasurer in election commission
Feb. 2022 | **Association of chadians students and trainees in Tunisia (A.E.S.T.T)** Tunis, Tunisia

President
Mar. 2018 - Mar. 2019 | **Association of african students and trainees in Tunisia Gabes section (Aesat - Gabes)** Gabès, Tunisia

🤝 Assets

Team spirit
- Led a team of students and trainees through different events
- Organized forums and training for people from different walks of life
- Headed and participated in conferences

📣 Social networks

🐙 @cmi-kamalos

💼 @mahamat-issa-choueb

ⓕ Choueb Mahamat Issa

🧑‍💼 Skills and Certifications

Programming
Python, Java, SQL, PySpark

Machine Learning / AI
TensorFlow, PyTorch, Scikit-learn, PINNs

Data Engineering
Snowflake, SSIS, Azure Data Factory, AWS, Stream Processing

Big Data Analytics
Hadoop, Spark, Data Integration, Data Visualization

Cloud & DevOps
Azure, AWS, Docker

Tools
Git, Jupyter, Power BI, IBM Watson

Certifications
IBM Big Data Engineer (Certified), AI Analyst (2021), Cyber Security (Certified)

🧠 Projects

COVID-19 Classification
- Built a predictive model to classify COVID-19 patients using Python (Pandas, Scikit-learn).
- Conducted EDA to identify key clinical features and improved model accuracy to **97%**.

Chatbot using IBM Watson
- Designed and deployed a chatbot for user Q&A automation.
- Implemented NLP intent classification and integrated IBM Watson API

IoT E-health Project
- Built Arduino-based system to monitor temperature and asthma patient health metrics.
- Integrated sensors with cloud dashboard for real-time alerts.