

SABRINE ABASSI

Data Scientist | Machine Learning Engineer

 Tunis, Tunisia  +216 27 026 006  sabrineabassi2020@gmail.com
 linkedin.com/in/sabrine-abassi-data-scientist  abassisabrine.github.io

Professional Profile

Data Scientist specialized in **Machine Learning**, **Deep Learning**, and **Natural Language Processing (NLP)**. Experienced in developing predictive models, recommendation systems, and intelligent solutions applied to e-learning and e-health domains. Author of a scientific publication in a **Q1-ranked international journal (Elsevier)**. Strong expertise in model optimization, complex data analysis, and deployment of robust AI solutions.

Professional Experience

Data Scientist *Dec 2024 – Present*
Systèmes Informatiques Tunisie (SIT)

- Development of NLP solutions and intelligent educational chatbot
- Multimodal data analysis: text, audio, and video
- Design and development of pedagogical recommendation systems for adaptive learning paths
- Implementation of a RAG (Retrieval-Augmented Generation) system to enhance chatbot response generation

AI Instructor (Part-time) *Feb 2024 – Jun 2024*
Souma Technologies

- Delivered training sessions in Machine Learning and NLP
- Supervised projects in data modeling and analytics

Data Scientist (Part-time) *Jul 2023 – Oct 2023*
Hope Horizon World – AI & E-Health

- Tunisian dialect speech recognition using NLP techniques
- Automated symptom detection from textual and speech data

Education

Master's Degree (Research Track) in Computer Science *2025 – Present*
University of Carthage – Faculty of Sciences of Bizerte

Master's Degree in Data Science *2022 – 2024*
University of Carthage – Faculty of Sciences of Bizerte
Thesis grade: 18.25/20
Q1 Journal Publication

Bachelor's Degree in Software Engineering *2019 – 2022*
University of Carthage – Faculty of Sciences of Bizerte
Graduated with High Honors

Scientific Publication

S. Abassi et al.
Dyskalemia Detection Based on Wavelet Scattering & Deep Learning.
Biomedical Signal Processing and Control, Elsevier, 2025.
Q1 Journal (Impact Factor: 4.9)

Technical Skills

Machine Learning

- Random Forest, XGBoost, SVM, K-Means
- Recommendation Systems

Deep Learning

- CNN, LSTM
- PyTorch, TensorFlow

Natural Language Processing

- BERT, Transformers, Word2Vec, TF-IDF
- Text classification, sentiment analysis
- RAG (Retrieval-Augmented Generation) systems

Data Science

- Python: Pandas, NumPy, Scikit-learn
- Data Visualization: Matplotlib, Seaborn, Plotly
- Databases: SQL, MongoDB

Cloud

- Microsoft Azure (Certified)

Certifications

- NVIDIA – Deep Learning Fundamentals (2025)
- NVIDIA – LLM Evaluation & Customization (2025)
- IBM – Deep Learning with TensorFlow
- IBM – Machine Learning with Python
- Microsoft Azure Fundamentals
- DataCamp – AI Engineer for Developers (2026)
- DataCamp – AI Engineer for Data Scientists (2026)

Research & Professional Engagement

- Member, IDEA LAB (AI & Data Engineering)
- Tunisian Association for Artificial Intelligence

Languages

- Arabic: Native
- French: Professional proficiency
- English: Professional proficiency