



NADIA BEN HADJ BOUBAKER

I am a first-year PhD student specializing in recommender systems and explainability. My research focuses on leveraging deep learning models and knowledge graphs to enhance recommendation performance and transparency. I have several publications in international conferences.

CONTACT



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mariem, halk el menjel

SOCIAL ACTIVITIES

AIESEC

- Member: February 2020 – January 2022
- Data Manager: January 2022 – January 2023

Tunivisions Club

- Human Resources Member: January 2021 – January 2022

LANGUAGE

- French
- English
- German (B1 level)

PROFESSIONAL EXPERIENCE

LIRIS Laboratory, France

Research Intern

- **February 2024 – September 2024**
 - Developed an explainable recommender system using deep learning models and knowledge graphs.

I&H Polymer Engineering

Intern

- **February 2022 – June 2022**
 - Design and implementation of a CRM system.

I&H Polymer Engineering

Intern

- **July 2022 – September 2022**
 - Development of a CRM system.

PROFESSIONAL EDUCATION

Salem Ben Hmida High School, Akouda

- Baccalaureate in Experimental Sciences

Higher Institute of Computer Science, Mahdia

- Bachelor's degree in Business Computing

Higher Institute of Management, Tunis

- Research Master's degree in Intelligent Decision-Making Strategies

Higher Institute of Management, Tunis

- First-year PhD student specializing in Recommender Systems and Explainability.

PROFESSIONAL SKILLS

- **Programming & Data Analysis:** Python, R, SQL, Java
- **Machine Learning & Deep Learning:** TensorFlow, PyTorch, Scikit-learn, Keras
- **Data Visualization:** Matplotlib, Plotly, Power BI, Tableau
- **Big Data & Databases:** Apache Spark, Hadoop, Neo4j, MySQL, MongoDB
- **Natural Language Processing (NLP):** Text mining, embeddings, transformers
- **Graph Technologies:** Knowledge Graph construction, RDF, SPARQL, NetworkX
- **Version Control & Collaboration:** Git, GitHub, GitLab

SOFT SKILLS

- Project management and teamwork
- Leadership and mentoring experience
- Strong communication and presentation skills
- Time management and multitasking
- Adaptability and continuous learning mindset

PUBLICATIONS

Boubaker, N. B. H., Kodia, Z., & Ayadi, N. Y. (2024).

- Personalized E-Learning Knowledge Graph-based Recommender System using Ensemble Attention Networks.
- In Proceedings of the International Conference on Management of Digital Ecosystems (MEDES'2024), pp. 84–100.

Boubaker, N. B. H., Kodia, Z., & Ayadi, N. Y. (2025).

- Towards Solving the Cold Start and Explainability Challenges in Recommender Systems Using Knowledge Graphs and User Demographics Data.
- In Proceedings of the IEEE Conference on Control, Decision and Information Technologies (CoDIT'2025).

Boubaker, N. B. H., Kodia, Z., & Ayadi, N. Y. (2025).

- A Hybrid Approach to Post-hoc Explanations in Recommender Systems: Embedding Meets Semantics.
- In Proceedings of the International Conference on Cooperative Information Systems (CoopIS'2025) – To Appear.