



Nour ElHouda Ben Ali

AI Researcher & PhD Student

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Profile

PhD student in AI at Université Paris Dauphine, with a Master's in Big Data & AI. Skilled in ML, NLP, and Generative AI, with experience in algorithm development, large-scale data processing, and teaching. Autonomous, detail-oriented, and passionate about data-driven solutions.

Education

- **PhD, Artificial Intelligence** – LAMSADE, Paris Dauphine Dec 2024–
Research: JSON Schema, NLP, LLMs
- **Master, Big Data & AI** – Paris Dauphine 2022–2024
ML, DL, NLP, Generative AI
- **Bachelor, Business Intelligence** – ISG Tunis 2019–2022
Data Warehousing, Dashboarding, Data Analysis

Experience

- **PhD Student, Paris Dauphine** Dec 2024–
Research on LLMs for generating JSON data compliant with JSON Schema.
- **Teaching Assistant, Paris Dauphine** Feb 2025–
Teaching M2 courses: Big Data Systems, ML on Big Data, Spark ML, Large-Scale Data Flows.
- **Data Scientist, Orange** Feb–Aug 2024
Developed chatbot for incident resolution using LLMs (Prompt Engineering, RAG).
- **Python Instructor, Paris Dauphine** Jun–Jul 2023
Taught Python & Data Science (Pandas, Matplotlib, Web Scraping).

Skills

- **Programming:** Python, Scala, SQL
- **Frameworks:** TensorFlow, Keras, PyTorch, Flask
- **Tools:** OpenAI API, Vertex AI, Talend, Power BI, Git
- **Libraries:** Pandas, Scikit-learn, Transformers, LangChain, Ragas

Languages

French (Professional), English (Professional)