



Louay Guetat

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🌐 **Website:** <https://louay-guetat.github.io/Louay-Guetat/>

📍 **Home:** Tunis (Tunisia)

ABOUT ME

Driven data analyst with a background in computer engineering, specializing in data analysis and interpretation. Possesses strong analytical skills and a solid understanding of statistical methods, poised to uncover valuable insights that inform strategic decisions. Ready to tackle complex data challenges and contribute to impactful projects in a collaborative environment. Committed to continuous growth and enhancing expertise in data-driven solutions.

WORK EXPERIENCE

Data Science Intern

Sagemcom [06/02/2024 – 31/08/2024]

City: Tunis | Country: Tunisia

- Business knowledge acquisition
- Collected data using web scraping tools (Selenium and BeautifulSoup)
- Used Retrieval Augmented Generation tool for indexing and retrieving data
- Integrated pre-trained Models from HuggingFace with LangChain
- Built a multi-agent system with LangGraph
- Built a responsive web application with ReactJS
- Used Flask python framework for the backend and model/system integration
- Maintained communication between front-end and back-end using RESTAPI

Full Stack React, Django Intern

We Tekup [01/07/2023 – 01/09/2023]

City: Tunis | Country: Tunisia

- Developed a user-friendly web platform with ReactJS that streamlines the job application process for employers and job seekers.
- Built APIs with Django python web Framework
- Created and Managed the database of the project with PostgreSQL

Software developer Intern

Civil Aviation and Airports Authority [15/01/2021 – 15/06/2021]

City: Tunis | Country: Tunisia

- Crafted and developed Java software to enhance market management and monitoring across diverse business areas, ensuring efficiency.
- Designed Java application JavaX
- Created UML diagrams of the project

EDUCATION AND TRAINING

Bachelor of Engineering, specialized in Data Science

ESPRIT [15/09/2021 – Current]

City: Tunis | Country: Tunisia | Website: www.esprit.tn/

Bachelor in computer science

Higher School of Economic and Commercial Sciences Tunis (ESSECT) [12/09/2018 – 14/07/2021]

City: Tunis | Country: Tunisia | Website: www.essect.rnu.tn

LANGUAGE SKILLS

Mother tongue(s): Arabic

Other language(s):

French

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Machine Learning / Deep Learning / Generative IA / NLP / Python Libraries (Numpy-Pandas-seaborn-Matplotlib) / Data Collection, Data Cleaning, Data Analysis, Data Visualisations / Tensorflow / PyTorch / Python / SQL / Web Technologies Fundamentals - HTML, CSS / Javascript(Nodejs, ExpressJs) / ReactJS / Django / Flask / Linux / RESTAPI / Git / Docker / Microsoft Office / Agile methodologies (SAFe, Scrum)

PROJECTS

[09/2023 – 11/2023]

Risk Management Recommendation System CO-Built a predictive system in chatbot format to create recommendations regarding risk management built on the data of the 11th edition PMBOK using a GAT GNN architecture, Bert embedder and NLP

Link: <https://github.com/Louay-Guetat/Risk-Management-Recommendation-System>

[03/2023 – 05/2023]

Intellectia Co-developed an educational platform that transforms text-based math problems into engaging visuals using HuggingFace Pre-trained Models, featuring a user-friendly dashboard and interactive quizzes to empower children in assessing and enhancing their math skills.

Link: <https://github.com/Louay-Guetat/Educational-Interactive-Intelligent-Platform>

[02/2023 – 04/2023]

Yoga Classification CO-Developed a model for yoga pose classification using CNN architectures; a trained CNN achieved 86% accuracy, and ResNet attained 97% accuracy.

Link: <https://github.com/Louay-Guetat/Yoga-classification>

HONOURS AND AWARDS

[19/11/2023] DeepLearning.AI, Coursera

Natural Language Processing This certification covers advanced NLP techniques using machine learning and deep learning. It includes sentiment analysis and word translation with logistic regression and naïve Bayes, text prediction

and part-of-speech tagging with dynamic programming and hidden Markov models, and applications of RNNs and LSTMs for sentiment analysis and text generation. Additionally, it explores encoder-decoder architectures and self-attention for machine translation, text summarization, and chatbot development.

Link: <https://coursera.org/share/47ce01f5e54d408d4a492468e5b5bf55>

[09/11/2023] Nvidia

Applications of AI for Anomaly Detection In this certification, I explored the applications of AI for anomaly detection. I learnt to identify unusual patterns in data using various machine learning techniques. The course covers foundational concepts, algorithms, and practical implementations, enabling me to apply these skills to real-world scenarios, such as fraud detection, network security, and quality control.

[26/10/2023] Nvidia

Building Transformer-Based Natural Language Processing Applications In this certification, I focused on building NLP applications using transformer-based models. I dived into cutting-edge architectures like BERT and GPT, learning how to tackle tasks such as sentiment analysis, text summarization, and machine translation. The course covers the fundamentals of transformers, training techniques, and hands-on implementation, equipping me to create effective NLP solutions for real-world challenges.