



Siwar Taktak

M.Sc. Data Science Student

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Profile

I am a 3rd-year **Data Science Engineering student (international class)** at ESPRIT and an **exchange student** at **Philipps-Universität Marburg**. I have built a solid foundation in machine learning and data engineering, through academic projects and hands-on work with Large Language Models and AI agents. Now I am looking for an internship where I can move from theory to practice, solving real challenges and learning what it takes to deploy AI systems that actually work.

Professional Experience

Summer Internship (Engineering Internship)

06/2025 – 08/2025

ESPRIT Tunisia

- Developed and implemented clustering algorithms in Python to form balanced and heterogeneous student groups based on GPA, skills, learning styles, and interests.
- Created and maintained backend workflows and Jupyter notebooks for data processing, algorithm testing, and performance evaluation.
- Integrated machine learning outputs with the web application, supporting gamification features to enhance student engagement and learning outcomes.

Summer Internship (Company Immersion)

07/2024 – 09/2024

Prologic Tunisia

- Analyzed and visualized data to support strategic decision-making across departments.
- Gained hands-on experience in data management, reporting, and the use of BI tools.
- Assisted in the centralization of data from multiple applications (GLPI and PMA) and helped design a dashboard to monitor key performance indicators.

Summer Internship (Observation)

07/2022 – 08/2022

Bank Of Tunisia Tunisia

- Prepared branch backup servers and automated the reinstallation of operating systems.
- Installed and configured essential software, including Microsoft Deployment Toolkit (MDT) and System Center Configuration Manager 2012 SCCM 2012.
- Performed BIOS configuration to enable operating system installation via network (PXE boot).

Projects

Agentic AI – Intelligent Recruitment Assistant

AI Project

Technologies: Python, Flask, ReactJs, Transformers (BERT), Scikit-learn

- Built an agentic AI system that reduces recruiter screening time by automatically ranking candidates using fine-tuned BERT models with multi-vector skill embeddings optimized via cosine similarity and triplet loss, while generating personalized feedback for rejected candidates.
- Enabled real-time interview analysis through audio transcription, sentiment classification, and non-verbal cue detection, applying decision tree ensembles and neural networks for candidate classification and evaluating performance using accuracy and F1-score.

FoodForAll – Food Donation & Redistribution Platform

Technologies: Java, Symfony, MySQL

- Designed and developed a platform to facilitate food donations from individuals and restaurants to people in need.
- Implemented user authentication, donation management, and real-time availability tracking features.
- Focused on minimizing food waste while connecting donors with local charities and NGOs.

Education

Exchange Student (M.Sc. Data Science)

10/2025 – present

Philipps-Universität Marburg

Marburg, Germany

Final Year Data Science Student

09/2021 – present

ESPRIT - Private Higher School of Engineering and Technology

Tunisia

Baccalaureate in Mathematics

01/2017 – 07/2021

L'Aouina High School

Tunisia

Skills

Soft Skills: Creativity & Initiative • Attention to Detail • Communication & Organization • Problem-Solving & Solution-Oriented Mindset • Analytical Thinking & Feedback Collection • Educational Program Organization • Emotional & Social Intelligence

Technical Skills: Microsoft 365 (Excel: Data Analysis, Pivot Tables, Formulas; PowerPoint: Visual Storytelling) • Dashboarding & Analytics (Power BI, KPI Tracking, Data Visualization) • Python Programming • Machine Learning & AI (Scikit-learn, PyTorch, TensorFlow) • Data Analysis & Feature Engineering (Pandas, Matplotlib) • LLM & AI Agents (RAG, LangChain, Hugging Face, OpenAI APIs) • Containerization & CI/CD (Docker, Git, GitHub, Kubernetes) • Databases & BI Tools (MySQL, Power BI) • Web & Content Management • Version Control & Collaboration (Git, GitHub)

Languages

Languages: Arabic (Native) • French (C1) • English (Advanced C2) • German (A1) • Italian (A2) • Turkish (A1)

Certificates & Trainings

- **Nvidia:** Building Transformer-Based Natural Language Processing Applications Course and Fundamentals of Deep Learning.
- **DataScientist.fr:** Introduction to Docker, Introduction to RAG with LangChain, Fundamentals of Kubernetes.
- **AWS Academy:** Certificate of Completion for AWS Academy Graduate - Cloud Foundations Training Badge.
- **National Microsoft Technologies Camp (NMTC) 4th edition 2023:** Certificate of participation, AI and Microsoft Technologies conference certificate (Mariem Kharrat), MLOPS and Autonomous Telecommunications by Orange Tunisia.
- **Coursera:** Emotional and Social Intelligence.