

Sarra Ben Messaoud

Data Scientist

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Summary

I am a Software Engineering student with a strong passion for Artificial Intelligence. My experience is supported by a solid foundation in backend development and machine learning, and I thrive on solving complex challenges. I am known for my curiosity, diligence, and motivation to seek new opportunities that foster continuous learning and professional growth.

Work Experience

Olindias

September 2023 - May 2024 (Part-time), July - September 2024 (Full-time)

Data Scientist

Tunisia

- Developed an NLP-based search and recommendation system using LLMs like BERT and LLaMA, recognized by 3+ sponsors at SaaStr, San Francisco.
- Built and fine-tuned deep learning model to translate natural texts into NoSQL commands with 90.07 accuracy.
- Build Video Transcription service
- Contributed to backend development using Node.js and Python, enhancing the infrastructure for AI-driven applications.
- Deployed GPU- and CPU-compatible AI models, including NLP and recommendation systems, into production environments, optimizing resource utilization.
- Scraped and managed public and authorized private data from 2 different social media platforms to automate content and enhance user engagement in a management platform.

Summer Internship, Olindias

July - August 2023

Tunisia

- Scraped data from more than 3 fashion retailers, including Puma, American Eagle, and H&M.
- Developed an Ecommerce Recommendation System utilizing JavaScript with Brain.js and NLP.js, optimizing user positive feedback by 60% .

Personal Projects

- **University Platform:** Developed a scalable website for ISSATSO University to help students manage their academic life.
React.js, Node.js, Express.js, MongoDB
- **Sales Assistant Chatbot:** Created a chatbot application for real-time customer support which was integrated in 2 existed E-commerce solutions.
NLP.js, DialogFlow
- **Sentiment Analysis Model:** Built a model to evaluate and classify sentiments in textual data for social media monitoring.
Python, PyTorch, NLP

Skills

Generative AI & NLP: LangChain, LlamaIndex, LLM Models, Python, PyTorch, Scikit-learn, Transformer Models, BERT, LLaMA

Machine Learning & Deep Learning: Python, PyTorch, Scikit-learn

Backend Development: Node.js, Express.js, Flask, FastAPI, RESTful APIs, Microservices Architecture

Frontend developement: ReactJs, Tailwind

Data Management & Scraping: MongoDB, MySQL, GraphQL, Puppeteer, Cheerio

Deployment: Git, Nginx, Process Managers

others: Matlab, Linux, C/C++, Java, ElasticSearch, Vector databases

Certifications

Building Transformer-Based Natural Language Processing Applications

Nvidia Certification of Competency

Applications of AI for Predictive Maintenance

Nvidia Certification of Competency

Fundamentals of Deep Learning

Nvidia Certification of Competency

Education

- **Software Engineering Cycle** 2022 - 2025
Issatso (Higher Institute of Applied Science and Technology)
- **Integrated Preparatory Cycle** 2020 - 2022
Issatso (Higher Institute of Applied Science and Technology)

Extracurricular Activities

- Marketing Manager, North America Tunisia Engineering Group** 2022 - 2023
Coordinated and led a marketing team of 12 members for the organization.
- Volunteer, Red Crescent** 2020 - 2022

Social Intelligence

Teamwork, Independence and Initiative, Leadership and Collaboration.

Languages

- English
- French
- Arabic