

Ayoub ETOULLALI

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Data Scientist & AI Engineer Position

Artificial Intelligence | Data Analysis | Big Data | Predictive Analytics | NLP | Deep Learning

Dynamic Data Scientist & AI Engineer with 2+ years of experience delivering AI-driven solutions, including a 25% accuracy improvement for sentiment analysis at Adria B&T. Proven expertise in machine learning, NLP, and recommendation systems, with a passion for optimizing business outcomes and a commitment to continuous innovation.

WORK EXPERIENCE

Data Scientist & AI Engineer

October - Present | 2024

AME Engineering – *Nador, Morocco*

- Designed an AI chatbot using LLM integration, enhancing conversational capabilities and reducing query resolution time by 40%.
- Automated data collection processes with web scraping, achieving a 35% improvement in efficiency.
- Developed personalized recommendation systems, increasing user engagement by 25%.

Tools: Python libraries (ML, Selenium, Requests, Beautiful Soup), LLMs, Rasa, AI Platform

Data Scientist & Generative AI Intern

February - June | 2024

Adria B&T – *Casablanca, Morocco*

- Fine-tuned Mistral 7B for a 25% increase in chatbot accuracy and improved customer satisfaction by 20% via sentiment analysis integration.
- Benchmarked and optimized intelligent virtual assistants, increasing response efficiency by 30%.

Tools: Python (Hugging Face, LangChain), LLMs (RAG, Prompt Engineering), AI Platform (Ollama)

Data Engineer & Scientist Intern

June - September | 2023

NTT DATA – *Tetouan, Morocco*

- Predicted user destinations with 88% accuracy using ML models, optimizing marketing strategies and improving targeting.
- Enhanced data processing speeds by 40% with ML model optimization.

Tools: Big Data Technology, Python, Java, Spark MLlib, Docker, Kubernetes

PROJECTS

- AI-Powered Video Summarization and Q&A Assistant:** Delivered quick summaries and instant Q&A for video content, improving user engagement by 50%.
- Disaster Tweets Classification:** Built a high-performing binary classification model, achieving an F1 score of 0.85 for disaster detection in tweets.

- **MASI Index Performance Prediction:** Optimized machine learning models for financial market analysis, increasing prediction accuracy by 15%.

PROFESSIONAL SKILLS

- **Data Science & AI Tools:** Python, R, TensorFlow, PyTorch, Keras, LangChain, Hugging Face, Scikit-learn, XGBoost, Pandas, NumPy, Matplotlib, Seaborn, Power BI, Tableau, SQL
- **Additional Skills:** OCR, Computer Vision, Reinforcement Learning (Q-learning), Retrieval-Augmented Generation (RAG), Sentiment Analysis, Fine Tuning, Prompt Engineering
- **Data Engineering:** Apache Spark, Hadoop, MapReduce, HDFS, Apache Airflow, Apache Sqoop, Kafka, Docker, Kubernetes
- **Cloud Computing:** IBM Cloud, Oracle Cloud Infrastructure (OCI), AWS (basic knowledge), GCP
- **DevOps & MLOps:** Jenkins, FastAPI, Flask
- **Version Control and API Development:** Git, GitHub, RESTful APIs, Postman, Swagger
- **Other Technical Skills:** SQL Databases (MySQL, PostgreSQL), NoSQL Databases (MongoDB, Redis, Cassandra), Data Visualization Tools (Grafana, Power BI, Tableau)
- **Project Management & Collaboration:** Jira, Slack, Microsoft Teams, Agile SCRUM, ClickUp

AWARDS AND HONORS

- **Chess Competition:** 3rd place at Chess Club event.
- **Problem Solving:** Ranked 20th out of 130 teams at ENSIAS event.
- **Competitions:** Active participant in data science and AI competitions (Kaggle).
- **Hackathon:** Participated in Orange Digital Center Morocco "MEGA Pan-African Hackathon".

EDUCATION

ENSET Mohammedia – Morocco	June 2024
Engineering degree in Computer Engineering – Big Data & Cloud Computing	
ENS Tetouan – Morocco	July 2021
General University Studies Diploma – Secondary Education - Mathematics Specialization	

CERTIFICATIONS

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| • Artificial Intelligence – Great Learning | Machine Learning – Kaggle |
| • Recommendation Systems – Great Learning | ChatGPT and Generative AI – 365 DS |
| • M001: MongoDB Basics – MongoDB | Oracle Cloud Infrastructure – Oracle |

INTERESTS

Design: Creativity and innovative ideas	Mind Games: Analytical and strategic thinking
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LANGUAGES

Arabic (C2)	French (B2)	English (B1)
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