

Rayen Ammar

+216 23971132 | ammarrayen646@gmail.com | linkedin.com/Rayen Ammar | github.com/Rayen Ammar | kaggle.com/Rayen Ammar

Education

Engineering Degree in Artificial Intelligence & Data Science 2024 – Present

TEK-UP University, Tunisia

Coursework: Machine Learning, Statistics, Optimization, Databases, Generative AI

Experience

Full-Stack AI Developer Intern — Vermeg 2026

CHRONOS · Employee Time, Cost & Allocation Intelligence Platform React/Vite · Spring Boot · Keycloak · PostgreSQL

- Designed a full-stack workforce intelligence platform tracking employee allocation and generating three-month cost forecasts using OLS regression with 95% confidence bands across companies and organisational units
- Built an anomaly detection engine identifying four operational risk types and implemented role-based access control via Keycloak OAuth2 serving Admin, Finance Officer, and Product Manager dashboards with dual CSV export

Projects

DUALIS — AI Financial Lending Platform (2025) .NET ML.NET SQL Server Generative AI

- Built a predictive ML model to assess loan eligibility and risk based on applicant financial profiles
- Integrated generative AI to produce transparent, human-readable explanations for lending decisions

UNIVIOO — AI CV & Recruitment Platform (2025) Django NLP TF-IDF LLM API React

- Built a matching engine using TF-IDF and cosine similarity for candidate–opportunity alignment
- Integrated a generative AI chatbot for personalized career guidance within a modular multi-stakeholder system

waveAI — Ocean Intelligence Platform (2026) Python PyTorch Scikit-learn Django Streamlit

- Built deep learning & ML models (LSTM Autoencoder, Random Forest) for storm detection and ocean forecasting
- Applied SHAP explainability across satellite and oceanographic data sources to enhance model transparency

Retail Store Sales Forecasting — Time Series Analysis (2026) Python LightGBM XGBoost Scikit-learn Plotly

- Engineered temporal features (paydays, weekends, holiday flags) and trained LightGBM & XGBoost models with TimeSeriesSplit cross-validation
- Delivered interactive visualizations (Plotly, Seaborn) revealing seasonal trends, store-type performance, and macroeconomic correlations

Technical Skills

Programming Python, SQL, C#, JavaScript

ML / DL Scikit-learn, PyTorch, ML.NET

MLOps MLflow, Docker, Git, DVC, CI/CD

Data & BI Pandas, NumPy, Matplotlib, Power BI, Streamlit

Frameworks Django, ASP.NET Core, Spring Boot, React

Tools Git, Docker

Certifications

Azure AI Fundamentals (Microsoft) | Generative AI with Diffusion Models (NVIDIA) | Deep Learning Fundamentals (NVIDIA) | Prompt Engineering (Udemy)

Languages & Activities

Arabic — Native English — Fluent French — Fluent German — Beginner

Participant — Digital Future 6.0 Conference titled “Data Literacy” — attended workshops by foreign professors, engaged with international participants

Participant — IEEE GODS Competition Hackathon