

# Yassine ERRADOUANI

Data Engineer

📍 Casablanca | ✉ hello@yerradouani.me | 📞 +212 601 754 445

🐙 Github | 🔗 LinkedIn | 🌐 website



## Education

- Master's Degree in Data Science**, University of Applied Sciences Ibn Zohr, Agadir 2025
- Bachelor's Degree in Mathematics and Computer Science**, University of Applied Sciences Ibn Zohr, Agadir, SMI 2023
- ALFATH High School, Agadir**, Baccalaureate — Mathematical Sciences A

## Professional Experience

**Phaxel** – Data Engineer Nov 2025 – Present

- Architected end-to-end supply chain pipelines to ingest and transform EDI documents (X12/EDIFACT), ensuring seamless data flow and total integrity across complex downstream systems.
- Engineered a high-performance validation engine for high-volume B2B transaction streams, enforcing strict schema compliance and eliminating data quality bottlenecks.
- Implemented real-time monitoring and robust error-handling for data processing workflows, providing full visibility into system health and critical compliance metrics.

**TechStride Solutions** – Business Intelligence Analyst Jun – Nov 2025

- Engineered automated ETL pipelines using SSIS packages to streamline data transformation and deliver structured insights for executive reporting.
- Performed complex ad-hoc analysis on large-scale datasets to identify trends and correlations, providing actionable data to support strategic initiatives.
- Optimized database architecture through table restructuring and strategic indexing, resulting in significantly reduced query latency and improved system efficiency.

## Key Projects

**IoT Data Pipeline & Anomaly Detection ML System** GitHub  
Data Engineer Sept 2025 – Oct 2025

- Developed a scalable IoT pipeline using 100% open-source technologies, capable of processing 10,000+ sensors at 1 message/second with real-time ML-powered anomaly detection for proactive system monitoring.

**Technologies** : Apache Kafka, Apache Spark, TensorFlow, TensorFlow Serving, MinIO, Prometheus, Grafana, Docker, Kubernetes, Python

**YMovies v3: Movie Recommendation System** GitHub  
Lead Full Stack Developer Aug 2025 – Feb 2026

- Architected a full-stack movie discovery platform integrating the TMDB API, featuring custom recommendation logic and a high-performance UI designed to efficiently navigate 800,000+ titles with real-time search and filtering.

**Technologies** : React, TypeScript, Tailwind CSS, Python, FastAPI, TMDB API, PostgreSQL, Docker, Git

## Technical Skills

**Languages & Databases**: Python, SQL, Scala, Java, PostgreSQL, NoSQL (MongoDB, Redis), BigQuery.

**Data Engineering & Infrastructure**: Apache Spark, Kafka, Apache Airflow, dbt, Hadoop, Distributed Systems, MinIO.

**MLOps & Cloud**: Docker, Kubernetes (k3s), MLflow, Git/GitHub, CI/CD, Terraform, AWS, GCP.

**AI Engineering**: RLHF, LLMs, TensorFlow, PyTorch, Scikit-Learn, NLP (SpaCy, NLTK).

**Full-Stack Data Apps**: React, Next.js, TypeScript, FastAPI, Tailwind CSS, Power BI, Streamlit, Selenium, Scrapy.

## Certifications

Google Data Analytics | ALX Data Science | Machine Learning Specialization