

PROFESSIONAL SUMMARY

Motivated second-year Data Science student at INSEA with a passion for building meaningful professional relationships. Completed several self-directed projects in data engineering, machine learning, and AI systems. Actively seeking mentorship opportunities to accelerate growth and unlock full potential in the data science field.

EDUCATION

- Engineering Degree in Data Science

INSEA - National Institute of Statistics and Applied Economics, Rabat
- Preparatory Classes for Engineering Schools (CPGE)

Reda Slaoui High School, Agadir
- 2023-2026

Second Year
- 2021-2023

MP Sector

WORK EXPERIENCE

- AI Chatbot Development Intern

Civil Engineering Data Retrieval System

Developing an intelligent chatbot for automated question answering in civil engineering domain.

Implementing RAG (Retrieval-Augmented Generation) architecture with local LLM deployment using Ollama and Llama 3 models.

Building conversational interface connected to technical databases containing plans, reports, and standards.

Designing REST API communication system and optimizing prompt engineering for domain-specific queries.
- Web Scraping and Data Integration Intern

Database Development and API Integration

Created comprehensive database of proverbs from various countries using advanced web scraping techniques.

Utilized BeautifulSoup and Selenium for multi-website data extraction and automation.

Integrated Gemini API to generate standardized explanations and enrich collected data.

Structured and organized data into well-designed database for efficient retrieval and analysis.
- Jul 2025 - Present

ATOMAS
- Aug 2024 - 1 month

KING SOFT

PERSONAL PROJECTS

- Data Warehouse Project - Bank Reviews Analysis

Full-stack data pipeline analyzing Google Maps reviews using modern data stack.

Scraped location-based reviews using Places API and enriched data with Hugging Face NLP models for sentiment and topic extraction.

Built star schema using DBT and implemented PostgreSQL data warehouse.

Connected to Looker Studio for interactive dashboarding and branch performance analysis.

Orchestrated complete ETL process using Apache Airflow for automation and reliability.
- Telecom Churn Prediction Model

Classification model predicting customer subscription cancellation probability.

Developed machine learning model analyzing customer behavior patterns and characteristics.

Implemented supervised learning algorithms using scikit-learn for predictive analytics.

Applied data preprocessing and feature engineering techniques for optimal model performance.
- Audio Anonymization Solution

Voice Privacy Hackathon - Speaker Identity Protection System.

Developed solution to anonymize speaker identities using advanced audio processing and machine learning.

Collaborated with multidisciplinary team during Voice Privacy Hackathon (e++ Club, UM6P).

Delivered functional prototype implementing voice privacy preservation techniques.
- Mar 2025 - 3 months
- Jun 2025 - 2 weeks
- Feb 2025 - 2 days

TECHNICAL SKILLS

Programming & Tools: Python, SQL, Git, GitHub, Jupyter Notebook, Google Colab, Flask

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Looker Studio

Machine Learning: Supervised & Unsupervised Learning (scikit-learn), Linear & Logistic Regression, K-Means

Data Engineering: Web Scraping (BeautifulSoup, APIs), Apache Airflow, DBT, PostgreSQL, Data Cleaning & Preprocessing

AI & NLP: RAG (Retrieval-Augmented Generation), Ollama Integration, Llama 3 Models, Hugging Face, Prompt Engineering

Cloud & Databases: Azure Cloud (Basic), PostgreSQL, Database Design, Star Schema Modeling

Languages: Arabic (Native), French (B2), English (B2)

ADDITIONAL INFORMATION

•**Freelancing Experience** Active on Mostaql.com platform

Ongoing

- Providing data science and web scraping services to various clients.
- Building reputation in Arabic-speaking freelance marketplace.

•**Technical Interests** Linux Systems & Open Source Community

- Active GitHub community involvement and open-source contributions.
- Proficient in Linux system administration and command-line tools.