

Mohamed Dyn

☎ +212 657 722 751 | ✉ contact@mohameddyn.me | 🌐 Mohamed Dyn | 🌐 dynmohamed | 🌐 mohameddyn.me | 📍 Rabat, Maroc

PROFIL

Final-year Engineering Student (Data Science) at INSEA, seeking an end-of-studies internship to apply my knowledge in Data Engineering, Machine Learning, and Data Analytics on concrete projects.

EDUCATION

Institut National de Statistique et d'Économie Appliquée (INSEA) <i>Engineering Degree (MEng), Data Science</i> Classes Préparatoires aux Grandes Écoles (CPGE) <i>Preparatory Diploma in Mathematics, Physics, and Engineering Sciences</i>	Rabat, Morocco <i>Sept. 2023 – Present</i> Tangier, Morocco <i>Oct. 2021 – July. 2023</i>
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PROFESSIONAL EXPERIENCE

TEMACONCEPT <i>Data Scientist (Intern)</i> Development of an optimization engine for CPGE teacher assignment : modeled the problem as a needs grid and implemented the Hungarian algorithm (Python) to maximize profile/position matching.Design of a RAG (Retrieval-Augmented Generation) system integrated into a chatbot to query assignment results using natural language. ⇒ Performance Optimization : Achieved 100% automation of teacher assignment, reducing administrative time from 5 days to 2 hours via the implementation of the Hungarian algorithm in Python.. ⇒ Technologies : Python, Pandas, LangChain, LLM, Vector DB.	Temara, Morocco <i>July. 2025 – Sept. 2025</i>
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MINISTRY OF RELATIONS WITH THE PARLIAMENT <i>Data Analyst (Intern)</i> Design of interactive dashboards (Power BI) for monitoring parliamentary activities, facilitating strategic decision-making by management.Data Cleaning and Modeling to transform raw data into reliable Key Performance Indicators (KPIs). ⇒ Facilitated decision-making through clear and interactive report representation.	Rabat, Morocco <i>July. 2024 – Aug 2024</i>
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PROJECTS

Deployment of a Serverless ELT Architecture on AWS — Designed an automated data pipeline for commercial analysis (Ingestion S3 → Transformation Glue → Warehousing Redshift). — Orchestrated workflows via Apache Airflow ensuring reliability and error recovery. — <i>Stack</i> : AWS (S3, Glue, Lambda, Redshift), Airflow, Power BI. ⇒ Gain : Reduced data availability latency from 24h à 15 min ,enabling near real-time steering.	March 2025
Automation of Big Data ETL Flows (Azure & Databricks) — Implemented a Medallion Architecture (Bronze/Silver/Gold) on Azure Databricks to clean and structure raw data. — Developed optimized PySpark jobs and continuous ingestion via Auto Loader . — <i>Stack</i> : Azure Data Factory, ADLS Gen2, Databricks, PySpark. ⇒ Bénéfice : Accelerated massive data volume processing by 40% because of Spark distributed computing.	Apr. 2025 – May 2025
Development of a Medical AI Assistant (RAG RLHF) — RAG Architecture with vector indexing in ChromaDB to query medical PDF documents. — Implemented an RLHF loop stored in PostgreSQL to fine-tune the model. — <i>Stack</i> : Python, LangChain, FastAPI, Docker, PostgreSQL. ⇒ Impact : Improved response accuracy and reduced hallucinations compared to a standard LLM .	May 2025 – June 2025

TECHNICAL SKILLS

Cloud & DevOps : AWS (S3, Glue, Lambda, Redshift, Athena, SageMaker), Azure (Data Factory, Synapse, ADLS), Docker, Git, CI/CD
Data Engineering : Apache Spark (PySpark), Databricks, Apache Airflow, Kafka, Hadoop (HDFS/MapReduce), DBT, ETL/ELT Pipelines
Data Science & IA : Machine Learning (Scikit-learn, TensorFlow), GenAI (LLMs, RAG, LangChain, Ollama, Hugging Face), MLOps
Programmation & Bases de Données : Python (Advanced), SQL (Advanced), Scala, Java, NoSQL (MongoDB, Cassandra, HBase), PostgreSQL, DuckDB
Développement Web & API : FastAPI, Flask, React, REST APIs
Business Intelligence : Power BI (DAX, Power Query), Tableau, AWS QuickSight

LANGUAGES

English (Fluent)	French (Fluent)	Arabic (Native)
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