LYES TOUMI



Portfolio

Data, Analytics & AI Engineer | Power BI · Tableau · SQL · Python · RAG

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linkedin.com/in/lyes-toumi • github.com/Toumil94 • toumilyes.netlify.app • **Swiss resident · B permit · EU citizen** • Available immediately

PROFILE

Engineering graduate with **3 years of data and BI experience** at EssilorLuxottica (190,000 employees) on an international scope covering 3 regions (Europe, US, Asia). I built **data pipelines on Azure and Databricks**, modelled data and delivered **30 to 40 dashboards** on 4 BI tools (Power BI, SAP BO, Qlik, Databricks) used by business departments and management. On the group BI migration, computation times were cut by more than 65% on critical reports and I trained 75 users. I also designed and deployed to production an **AI chatbot (RAG)** that cut the teams' information search time by 30%. Comfortable on the business side: gathering and challenging requirements, specifications, user acceptance testing and training, in French and English.

30 to 40	–65%	75	–30%
dashboards delivered on 4 BI tools	computation time on critical reports	users trained (60 end users, 15 key users)	information search time (AI chatbot)

TECHNICAL SKILLS

CLOUD & DATA PLATFORM

Microsoft Azure · Azure Data Factory · **Databricks** · Delta Lake · Lakehouse architecture · Snowflake · DuckDB

DATA ENGINEERING & ELT

Python · **SQL** · PySpark · dbt · Ingestion and transformation pipelines · ETL/ELT · Talend · Heterogeneous sources

ANALYTICS & BI

Power BI (DAX) · **Tableau** · SAP BusinessObjects · Qlik · Dataiku · Semantic models · Dimensional modelling (star, snowflake) · KPI

QUALITY & GOVERNANCE

Data quality rules · Integrity controls · Reliable data flows · Documentation and traceability · Access management

AI & AUTOMATION

RAG · LangChain · LLMs and AI agents · OpenAI / Anthropic API · Answer quality evaluation · Workflow automation

DEVOPS & TOOLS

Git & GitHub · CI/CD (GitHub Actions) · REST APIs · Postman · **Jira** · **Confluence** · VS Code · Agile / Scrum

PROFESSIONAL EXPERIENCE

EssilorLuxottica – Créteil (France) & Bangkok | Global group, 190,000 employees | Apprenticeship | **Oct. 2022 – Oct. 2025**

Data Engineer · Data Analyst · BI Business Analyst

Scope: ERP, sales, inventory and supply chain data across 3 regions. Data team of about fifteen people at headquarters, working daily with the teams in Thailand and the Philippines.

Data platform & data engineering

- Deployed and administered the **Databricks (Azure)** platform processing multi-source data (ERP, sales, inventory, logistics) for the group's 3 regions.
- Developed and automated **ETL pipelines in Python, SQL and PySpark**, orchestrated with Azure Data Factory and Delta Lake, ensuring reliable, high-performing data flows.
- Integrated developments with Git and CI/CD and wrote the pipelines' technical documentation, shortening onboarding for newcomers.

Analytics engineering & business intelligence

- Designed and delivered **30 to 40 decision dashboards** on 4 BI tools (Power BI, SAP BO, Qlik, Databricks) covering inventory, sales and supply chain, for management on 3 continents.
- Modelled data (star and snowflake schemas) and built the **SAP BO semantic universes** used as the common foundation of group reports.
- Developed DAX measures and defined steering KPIs on group scopes (WW Service KPI, Forecast, S&OP, Weekly Sales Reporting) with management in Europe, the US and Asia.
- Optimised queries and reports: **computation time cut by more than 65%** on critical reports, 9.2 s response time on 92% of queries (target: under 10 s on 90%) and availability above 99%.

Data quality & governance

- Designed an **access and permissions monitoring dashboard** (roles, non-compliant access detection, change requests, related tickets), used by about fifty people.
- Automated the weekly consolidation of this data, previously manual: **about 4 hours a week freed** for the team.
- Implemented **data quality rules and integrity controls**, bringing the data gap down to **0.8%** between two platforms (target: under 2%).

Business analysis

- Gathered, formalised and challenged business requirements, then wrote the functional specifications and user stories used for development.
- Contributed to the group-wide **BI migration from Qlik to SAP BusinessObjects**: impact analysis, coordination with technical teams, **97% of UAT passed** with no blocking defect (target: 95%), 100% of milestones met.
- Trained **60 end users and 15 key users** in French and English across 3 regions: 82% active users after three months (target: 80%).

Artificial intelligence

- Designed and deployed to production an internal **RAG chatbot** (LangChain, embeddings, vector store): **30% of information search time saved**, from a 12-person pilot to the whole support team.
- Built the AI pipelines (ingestion, cleaning, chunking, vector indexing) and benchmarked several LLMs with business question sets.

Airloop La Plage – Geneva | Head waiter | **June 2026 – ongoing**

Service coordination, cash handling and client relations at peak times.

Planzer – Geneva | Logistics & transport | **2026 – ongoing**

Operational supply chain role: flow management in a demanding, high-tempo environment.

OPEN-SOURCE DATA & AI PROJECTS

- **Swiss watch exports, Tableau** (public.tableau.com/app/profile/toumi.lyes): 3 dashboards on official customs data (2012 to 2025), LOD calculations, parameters, world map, executive memo.
- **Swiss hotel tourism BI** (github.com/Toumil94/analyse-bi-suisse): official statistics via API (400,000 rows), KPI dictionary, tested star schema, Power BI report with 24 DAX measures validated in CI.
- **RAG assistant for newcomers to Switzerland** (assistant-suisse.netlify.app): sourced answers from official sources, hybrid retrieval (BM25, RRF fusion), 40-question evaluation set.
- **Swiss rail punctuality** (cff-ponctualite.netlify.app): daily automated pipeline, DuckDB and dbt with data tests, Parquet data lake, public dashboard.
- **Job Hunter** (github.com/Toumil94/job-hunter-ai): AI agent that collects and scores Data and AI job offers in Switzerland (Python, LLM, GitHub Actions).

ENGINEERING PROJECTS (CESI)

- **AI applied to healthcare**: cancer recurrence prediction model (preparation, anonymisation, model comparison) · **Hospital big data**: ETL chain, data warehouse and BI reporting.

EDUCATION & CERTIFICATIONS

Engineering degree in Computer Science, Data & AI — **2021 – 2025**
CESI Graduate School of Engineering – Lyon | CTI-accredited – **MSc equivalent**

1st year BSc, Mathematics — **2019 – 2020**
Université Côte d'Azur – Nice, France

- ✓ Azure Data Fundamentals (DP-900)
- ✓ Generative AI Fundamentals – Databricks
- ✓ Cisco CCNA – Networking
- ✓ Databricks Lakehouse Fundamentals
- ✓ AI Agent Fundamentals – Databricks
- ✓ TOEIC 840/990 (B2)

LANGUAGES & REFERENCES

French – Native **English** – Fluent (B2, TOEIC 840) **Spanish** – Basics

Mohamed Akram Djouahra
Data Engineer – EssilorLuxottica

Thomas Delon
Project Manager – EssilorLuxottica

Amine Chabbi
Project Lead – EssilorLuxottica