Salah Eddine Ghezaiel

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Summary

Final-year Data Science and AI engineering student seeking a PFE internship, experienced in ML pipelines (scikit-learn, XGBoost), data warehousing and ETL, backend and mobile development (Node.js, Flutter), and test automation.

Skills

Programming : Python, Java, C, C++, SQL
ML & Data : Pandas, scikit-learn, XGBoost, Seaborn, Matplotlib
Backend & Mobile : Node.js, Express, REST APIs, GraphQL, gRPC, Kafka, Microservices, Flutter
Databases : PostgreSQL, MySQL, MongoDB, Firebase
Tools & Testing : Git, Robot Framework
Languages : Arabic (Fluent), English (C1), French (B1)

Education

Polytechnic School of Sousse *Sept 2024 – Present*
Engineering Degree in Data Science and AI
- **Relevant Coursework:** Advanced Data Structures & Algorithms, Machine Learning, Data Warehousing, Cybersecurity, Service-Oriented Architecture, AI Agents, Graph Theory, NLP, LLMs & RAG

ISITCOM of Sousse *Sept 2020 – June 2024*
Bachelor's Degree in Computer Engineering
- **Relevant Coursework:** Data Structures & Algorithms, Computer Networks, Web Development, Operating Systems, Embedded Systems

Ali Bourguiba High School, Sousse *Aug 2020*
Baccalaureate in Mathematics

Experience

Machine Learning Intern *Sousse, TN*
Association ARSII | GitHub *Aug 2025 – Sept 2025*
- Engineered a machine learning pipeline (Python, scikit-learn, pandas) merging three football data sources into 2,329 player-seasons to predict player injury risk.
- Tuned XGBoost and Random Forest with 5-fold CV, XGBoost scored best (test F1 0.78, recall 89%).

Mobile Developer Intern *Sousse, TN*
SOTUPUB *June 2025*
- Built a cross-platform event management app for iOS and Android using Flutter and Dart.
- Developed a backend REST API with Node.js, Express, and MongoDB to manage event reservations.

Software Tester Intern *Sousse, TN*
DRÄXLMAIER *Feb 2024 – June 2024*
- Developed automated test scripts (Python, Robot Framework) for regression cycles.
- Designed systematic test cases to identify early-stage bugs.

Projects

Fashion Recommendation Engine (Python, scikit-learn, SVD, pandas) GitHub
- Developed the ML code of a hybrid recommender combining TruncatedSVD collaborative filtering and cosine-similarity content-based filtering on the H&M dataset, with cold-start handling.

E-Commerce Data Warehouse (PostgreSQL, Python, pygrametl) GitHub
- Engineered a PostgreSQL star schema (sales fact table, 5 dimensions) on the Olist e-commerce dataset.
- Engineered an automated Python ETL pipeline (pygrametl) and 10 analytical charts from SQL queries.

Soccer Reservation Platform (Node.js, Kafka, gRPC, GraphQL) GitHub
- Engineered a Node.js microservices platform with an API Gateway (REST, GraphQL), using gRPC and Apache Kafka for real-time alerts and internal communication.

Competitions

- Competed in La Nuit de l'Info (2022, 2023, 2024), a 24-hour national team hackathon.
- Competed in the Tunisian Collegiate Programming Contest (TCPC) 2025.