HADIL ZIANE

Data Analyst | SQL · Python · Power BI · Excel | Statistics & Forecasting

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PROFESSIONAL SUMMARY

Data Analyst and PhD student in Data Science, AI and Statistics (Universiti Utara Malaysia), with a State Engineer degree in Statistics and an MSc in Statistics & Economic Foresight from ENSSEA (Excellent Distinction, 18/20). Builds end-to-end analyses from raw data to recommendation: data audit and cleaning, SQL and Python (pandas, statsmodels, scikit-learn), forecasting with backtesting, and Power BI dashboards. Six public projects on GitHub, each with documented methods and stated limits. Former trainer in statistics, Python, SQL and Power BI. Trilingual (English, French, Arabic) and comfortable working remotely with international teams.

SKILLS

Data Analysis: Data Cleaning and Auditing, Exploratory Data Analysis (EDA), Statistical Analysis, Hypothesis Testing, Regression Analysis, Time-Series Analysis, Forecasting and Backtesting, Econometrics (ARDL)
Tools & Languages: SQL (SQLite, MySQL), Python (pandas, statsmodels, scikit-learn), R, Microsoft Excel, Power BI (DAX), Jupyter Notebook, Git, GitHub
Visualization & Reporting: Power BI Dashboards, Data Visualization, Data Storytelling, Reporting
Machine Learning & AI: Predictive Modelling, Model Evaluation (academic)
Web Development: JavaScript, PHP, HTML5, CSS3, Linux

PROJECTS

Job Postings Monitor: forecast of Indeed job postings, 4 countries (github.com/Hadil16/job-postings-forecast)

- Compared 17 forecasting models with a rolling backtest (44 dates, 8 series): a damped trend won with 3.3% error at 13 weeks against 5.4% for the naive forecast.
- Found US Data & Analytics postings 37% below their pre-Covid level; built calibrated 80% and 95% bands and a five-page Power BI dashboard.

Energy Shift: renewables and fossil dependence, 219 countries (github.com/Hadil16/energy-transition-analysis)

- Separated 94 regional aggregates from countries (totals checked to 99.5%) and answered six business questions with SQL window functions.
- Showed renewables rising from 19% to 30% of world electricity (1990–2023) and Algeria at 98.7% gas; built a five-page Power BI dashboard.

Customer Segmentation (RFM): online retailer, 1M+ transaction lines (github.com/Hadil16/customer-segmentation-rfm)

- Cleaned the data with every removal logged; built 8 RFM segments and monthly retention cohorts in Python.
- Found that 22% of customers bring 68% of revenue and that 360 former top customers were silent for about a year; delivered a Power BI dashboard and recommendations.

Telco Churn: who leaves and who to call first (github.com/Hadil16/telco-churn-analysis)

- Built a logistic regression with odds ratios; diagnosed and fixed a collinearity problem (VIF 863 to 2.8); AUC 0.845 on unseen customers.
- Showed that calling the riskiest 20% of customers reaches 51% of churners.

Olist and Superstore: SQL, Python and Power BI case studies (github.com/Hadil16)

- Olist (99K orders): late deliveries average 2.57 stars against 4.29 on time. Superstore: discounts above 20% lost $135K without selling more units.

Renewable Energy & Economic Growth in Algeria (1990–2024) — Master's Dissertation

- Prepared and analysed 35 years of macroeconomic and energy time-series data.
- Applied an Augmented Cobb-Douglas framework with ARDL modelling to estimate long- and short-run relationships.
- Translated model results into policy-relevant conclusions on Algeria's energy transition.

PROFESSIONAL EXPERIENCE

Data Analyst Intern — SONATRACH / Algerian Petroleum Institute, Algeria | 2026

- Cleaned, processed and analysed economic and energy datasets covering 1990–2024.
- Built ARDL and Augmented Cobb-Douglas econometric models to measure the short- and long-run effects of renewable energy deployment on economic growth.
- Interpreted quantitative findings and presented them in a real-world energy-industry context.

Data & BI Trainer — DataSpace, ENSSEA, Algeria | 2025–2026

- Delivered practical, project-based training in statistics, Python, SQL, Power BI and data analysis.
- Guided learners through applying quantitative methods to practical data problems.

Web Developer — Digital Smile | 2025–Present
- Develop responsive, database-driven web applications using JavaScript, PHP, MySQL and HTML/CSS.
- Implement interactive, data-driven interfaces backed by MySQL databases.
- Use Git for version control and Linux-based development and hosting environments.

Freelance Web Developer — Self-employed | 2025–Present
- Deliver websites and web applications for clients from requirements through deployment.

EDUCATION

PhD Student in Data Science, AI and Statistics — Universiti Utara Malaysia (UUM), Malaysia | Present
MSc in Statistics & Economic Foresight — National School of Statistics and Applied Economics (ENSSEA), Algeria | 2026
Excellent Distinction (18/20)
State Engineer (Ingénieur d'État) in Statistics — National School of Statistics and Applied Economics (ENSSEA), Algeria

ADDITIONAL EXPERIENCE

- Internships: BAOSEM (international trade operations), BEA International Bank (customer service and accounting), CPA Bank (IT systems and operations)
- Member, Marconics — HEC Alger (2024–2026)

LANGUAGES

Arabic (Native), French (Fluent), English (Professional Working Proficiency)