

MICHEL HABCHY

Data Analyst - AI Development / Automation

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PROFESSIONAL SUMMARY

Data analyst and BI project manager with a Data Science degree and experience spanning financial analytics, large-scale education assessment data, and enterprise systems delivery. Builds automated pipelines and decision-ready dashboards in Python, SQL and Power BI, and runs the delivery side end to end, requirements gathering, process mapping, stakeholder sign-off and rollout. Comfortable translating technical analysis into language decision-makers act on. Trilingual: English, Arabic, French.

CORE SKILLS

Analytics & Programming Python (pandas, NumPy, Dash), SQL, R, SPSS, Advanced Excel

BI & Visualization Microsoft Power BI, Dash, Excel dashboards, automated CSV/PDF reporting

Data Engineering ETL & data cleaning, data modeling, relational databases, cloud data warehousing

Statistics Descriptive statistics, distribution analysis, forecasting, cost-benefit & profitability analysis

Delivery & BA Requirements gathering, as-is/to-be process mapping, RACI & governance, stakeholder management, road mapping

Languages English (fluent) | **Arabic** (Native) | **French** (fluent)

PROFESSIONAL EXPERIENCE

➤ National Talents

Riyadh, Saudi Arabia

October 2025 – Present

Data Analyst / Full-stack AI SaaS/ Reporting and Integration Specialist

- Lead BI and data initiatives end to end, from requirements gathering through delivery, owning stakeholder alignment and reporting standards across departments.
- Scoped an enterprise ERP implementation program, evaluating build-vs-buy options and producing the comparison, phased delivery roadmap and cost/effort estimates used for the executive decision.
- Ran requirements-gathering workshops with Finance, Supply Chain, Operations and HR, documenting AP/AR/GL, procurement, inventory, work-order and payroll requirements through to department-head sign-off.
- Mapped as-is and to-be processes flow for the organization's top end-to-end processes, producing a pain-point register that shaped the target system design.
- Defined project governance, team roster, RACI, steering-committee cadence and escalation paths, and maintained the delivery plan with dependencies and critical path.
- Contributed to cloud data architecture decisions covering provider selection, landing-zone setup, managed database provisioning, backup and access-control policy.
- Designed and delivered a bilingual (English/Arabic) MBTI-based psychometric assessment platform, including scoring logic, type-profile content and the reporting layer surfacing results to clients.
- Built and maintained Power BI dashboards giving management live visibility into KPIs, project status and operational performance.

Beirut, Lebanon

July 2024 – October 2025

Data Analyst, Financial & Event Analytics (Hybrid)

- Analyzed financial data to support event budgeting, cost control and financial planning, delivering insights that fed directly into budget decisions.
- Worked with cross-functional teams to track and forecast event expenses and revenues against financial targets.

- Built and maintained financial dashboards in Excel and Power BI, giving management continuous KPI visibility.
- Prepared financial statements, cost-benefit analyses and forecasts to support resource allocation for upcoming events.
- Conducted post-event profitability analysis, surfacing cost-saving opportunities and margin improvement areas.
- Provided data-driven input into pricing strategy and vendor negotiations, improving event-level profitability.
- Supported audit and compliance by enforcing data accuracy and integrity controls in financial reporting.

➤ **York-Press**

*Jounieh, Lebanon
July 2024 – October 2025*

Data Analyst

- Built automated Python pipelines to process and visualize large-scale EST exam datasets covering students across Egypt, Jordan, KSA and the UAE.
- Replaced manual reporting workflows with automated Excel, Power BI and Python processes, cutting turnaround time and eliminating recurring transcription errors.
- Developed Dash dashboards tracking student performance against predefined skill sets across multiple test versions.
- Computed skill-level, subject-level and country-level statistics across Mathematics, Literacy, Biology and Chemistry, including mean, median and standard deviation trend analysis.
- Mapped test items to target skills per version, enabling like-for-like comparison across otherwise non-equivalent test forms.
- Designed CSV reporting templates summarizing student scores, version distribution and skill-based metrics for school and stakeholder distribution.
- Partnered on the design and deployment of reporting tools delivering real-time insight and comprehensive school performance reports.

➤ **Geo Data Engineering**

*Zalka, Lebanon
February 2023 – September 2023*

Data Analyst, Project Based (Hybrid)

- Delivered a comparative research dataset on centralization and decentralization across 207 countries, covering 31 thematic topics.
- Owned data collection, cleaning, categorization and analysis for the full dataset.
- Produced client-facing visual dashboards translating findings into forward-looking recommendations.
- Managed the project schedule and delivery checklist, keeping a multi-topic workload on time.

SELECTED PROJECTS

Taqdeer; AI-Powered Construction Estimation (BoQ) SaaS

tagdeer-co.com
2025 – Present

Co-Founder & Full-Stack Engineer (solo)

- Founded and single-handedly built Taqdeer, a bilingual (Arabic/English) multi-tenant AI SaaS that automates construction Bill-of-Quantities estimation, deployed to production on Vercel and Render.
- Engineered an AI document-analysis pipeline (FastAPI + Anthropic Claude with structured outputs) that parses Excel, Word and PDF RFPs into structured work items and matches them to a priced catalogue using pgvector semantic search with per-match confidence scoring.
- Developed an assembly-aware matching engine that decomposes a single scope line into the multiple catalogue items an engineer would specify, returning quantities and confidence scores, deliberately excluding pricing from model context so cost and markup logic stays deterministic in application code.

- Architected a secure multi-tenant backend (FastAPI, SQL Alchemy, PostgreSQL) with role and capability-based access control, JWT authentication with TOTP 2FA, scoped integration API keys, and per-tenant usage metering and billing.
- Built the catalogue ingestion layer, normalizing supplier rate sheets, item codes, bilingual descriptions, units, material and labor cost, markup and brand, into a single internal schema.
- Built the full Next.js front end: bilingual, RTL-aware UI covering RFP intake, a kanban project pipeline, BoQ review and approval workflows, and financial dashboards.
- Owned the full delivery lifecycle solo, architecture, security, CI/CD via GitHub Actions, containerization with Docker, and production deployment and monitoring.
- Stack: Python · FastAPI · SQL Alchemy · PostgreSQL/pgvector · Next.js/React · Anthropic Claude (structured outputs) vector search · JWT/2FA · GitHub Actions · Vercel · Render · Docker

EDUCATION

Lebanese University, Faculty of Information, Branch II
Bachelor of Science in Data Science

Jdeideh, Lebanon
June 2024