

Abdelrahman Elaref

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Summary

Data Analyst skilled in ETL pipelines, interactive dashboards, and reporting. Transforms raw data into actionable insights using Python, SQL, and Power BI. Proven ability to work independently in remote settings. Seeking remote analyst roles to apply technical expertise and business knowledge.

Skills

Programming languages & Databases: Python, SQL, PostgreSQL, MySQL, SQLAlchemy

Data Analysis & Visualization: Excel (PivotTables, Power Query, Power Pivot), Power BI, Tableau, Machine Learning(Scikit-Learn), Pandas, NumPy, Seaborn, Matplotlib

Tools: Git, GitHub, Jupyter Notebook, Docker

SoftSkills: Remote Collaboration(Slack, Zoom), Ability to work independently, Decision-Making, Market Research, Presentation, Communication skills, Analytical problem-solving skills, KPI development

Work Experience

Data Analyst Intern | Remote

Sustainly.tech

Jul 2024 - Present

- Executed climate risk assessments across **8 sectors** by **integrating data from 15+ sources** (financial disclosures, academic research), identifying key physical and transition risk drivers.
- Built scenario-based financial models in Python **integrating 9 years of historical emissions and financial data**, projecting carbon cost exposure ranging from \$325M to \$2.15B (2030–2060).
- Quantified agricultural sector vulnerabilities, revealing **it absorbs 82% of drought-related economic impacts and contributes ~20% of global GHG emissions**, informing targeted mitigation strategies.
- **Simulated 9 climate risk pathways**, showing 85–91% cost savings under a Net Zero compared to Business-as-Usual, providing actionable recommendations for corporate decision-making.

Projects

Automated Reporting System | [GitHub](#)

- **Reduced manual reporting time by 90%** by engineering a Python-Data driven system that ingests data from **5+ e-commerce sources**, automatically **calculates 10+ KPIs**, and generates comprehensive HTML reports for faster, data-informed decisions.
- Enhanced business intelligence by developing an automated ETL pipeline that **analyzes 90000+ transactions data across 60+ product categories, computing 10+ key performance metrics** and delivering clear visualizations.
- **Accelerated decision-making by 85%** by implementing robust data analysis methods that **evaluate 10+ weekly KPIs**—including revenue and customer satisfaction—and **produce 15+ actionable insights** with natural language summaries.

Sales Analytics ETL and Dashboard | [GitHub](#)

- Built a star schema database and automated ETL pipeline using Python, Pandas, SQLAlchemy, and PostgreSQL to **integrate over 20,000 rows** of EU and US sales data from spreadsheets, improving data accessibility and reducing manual processing.
- Established a PostgreSQL connection that **reduced configuration errors by 30%**, ensuring seamless data flow from the optimized database to the Power BI dashboard for enhanced sales analytics.
- Created interactive Power BI dashboard with dynamic filters and bookmarks that allows users to switch between Sales, Profit, and Quantity views for comprehensive product performance analysis.

Education

Bachelor of Artificial Intelligence Engineering, Mansoura university

Expected 2027

Courses and Certifications

Data Science Course, ALX and Explore AI

May 2025

DataCamp Certified DataAnalyst, DataCamp

August 2024