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Carer Objective:

A Data Enthusiastic and Proudly Constant Learner Enjoying the Journey of Discovering Data Secrets and Precious Insights Delivering it with Accuracy and Clarity, Committed to Help Teams and Businesses by Achieving their Goals using a Variety of Methodologies and Tools with Experience Gained out of Real Scenarios.

Education

- B.Sc. of Computer Science and information systems
  The Higher Institute of 6th October [2025], [GPA: 3.1]

Work Experience

Power BI Internship [Jan 2026 – May 2026]
- Information Technology Institute – ITI
  - Delivered interactive, KPI-driven dashboards and data models in a 393-hour intensive BI program, mastering Power BI, DAX, SQL, and data warehousing.
  - Executed advanced data transformation and visualization to derive actionable insights from real datasets using Power BI, Python, and Tableau.

AI & Data Science Microsoft Machine Learning Engineer Internship [Dec,2025 – May,2026]
- Digital Egypt Pioneers – DEPI
  - I specialized in building and deploying end-to-end machine learning models using Python and Microsoft ML Stack, covering predictive analytics, feature engineering, and model optimization.
  - Applied statistical analysis and industry best practices to transform raw data into production-ready AI solutions and scalable ML pipelines.

Data Analyst Freelancer [Feb 2025 – Present]
- Mostaql
  - Automated data acquisition from websites and APIs, and transformed raw data through cleaning and database preparation. Created clear dashboards and reports in Excel to drive data-informed decision-making.

Data Trainer [Oct 2025 – Dec 2025]
  - Elevated organizational data literacy by conducting training on core tools (Excel, Power BI) and data-driven concepts for employee upskilling.
  - I partnered with leading Gulf-region enterprises like DEWA and CATRION to deliver tailored data training and analytical collaboration.

Data Entry [Oct 2024 – Jul 2025]
- Future Academy EG
  - Digitized educational materials by converting books/PDFs into structured digital formats using Google Workspace, and created interactive video content with Canva, ensuring accuracy and engagement for modern learning.

Certifications:

Data Camp:
Data Analyst
Data Engineer
Data Scientist

IBM:
Data Analyst
Data Analytics
Data Science
Machine Learning

Google:
Data Analytics
Business Intelligence

Udacity:
Generative AI & AWS
FWD Data Analysis

Meta:
Data Analyst
Huawei
HCIA-Big Data

Technical Skills:

Data Analysis & BI Tools
- Advanced Excel (Power Pivot, Power Query, PivotTables, advanced formulas)
- Power BI (DAX, Power Query, data modeling, interactive dashboards)

Databases & SQL
- SQL Server, MySQL, PostgreSQL
- Complex queries, joins, subqueries, CTEs, views, aggregations
- Data modeling (Star Schema, Snowflake Schema), optimization

Programming & Data Science
- Python (Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn)
- Web scraping (Selenium)
- API integration, data cleaning, ETL/ELT workflows

Machine Learning & AI
- Supervised & unsupervised learning (regression, classification, clustering)
- Model evaluation, feature engineering, deep learning (TensorFlow, Keras)
- Computer vision (YOLOv8, CNN, LSTM, OpenCV)

Tools & Workflow
- Version control (Git), VS Code
- Data warehousing concepts, KPI design, dashboard storytelling

Projects:

Intelligent End-to-End Data Pipeline Platform
Designed and developed an end-to-end Python-based data pipeline supporting multi-source data ingestion, automated data cleaning and transformation, and machine learning model integration for predictive analytics.
Built a graphical user interface to enable interactive data visualization and dashboard generation using Pandas, NumPy, Scikit-learn, Plotly/Matplotlib, SQL, and Git.

Competitive Marketing Intelligence System
Engineered a Power BI platform with a star-schema data model to calculate dynamic ROI and analyze performance across 3 sales channels, integrating sentiment analysis to identify high-growth markets.
Tools: Power BI, DAX, SQL, Python (Sentiment Analysis)

Global COVID-19 Analytics & Decision Support System
Processed millions of global health records with SQL to derive a 2.1% fatality rate and 45% vaccination coverage, delivering time-series insights on pandemic trends and vaccine impact.
Tools: SQL Server, CTEs, Temporary Tables, Data Cleaning Libraries

Madrid Real Estate Price Prediction
Analyzed 21,000+ properties using Python, proving location as the key price driver, and built regression models (R^2 evaluation) to predict prices and guide investment strategy.
Tools: Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn)

Comprehensive Media Catalog Scraper
Developed an automated Python scraper using Selenium to launch browsers, manage tabs, and collect global film and series data from dynamic websites. Transformed raw information into a structured database.
Tools: Python (Selenium, BeautifulSoup, Pandas), APIs (where applicable)

Graduation Project – Real-Time Fog & Obstacle Detection for Autonomous Vehicles
Developed an integrated deep learning pipeline using LSTM for fog detection and YOLOv8 with CNN-LSTM for obstacle recognition on 20K+ sensor rows. Achieved ~79.5% accuracy by fusing LiDAR, RGB, and vehicle data.
Tools: Python (TensorFlow/PyTorch), OpenCV, YOLOv8, Pandas