


Abdulrhman Mohamed Gomaa

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Summary

Aspiring Data Analyst with hands-on experience in data cleaning, modeling, visualization, and machine learning. Built end-to-end real-world projects including a multi-season **Formula 1 analytics pipeline** and a **season winner prediction app**. Proficient in Python, SQL, Power BI, and ETL workflows.

Projects

F1 Pit Stop Performance Analysis (2018–2024)

[GitHub](#)

- Engineered an end-to-end analytics pipeline over **28K+ records** using Python and Power Query.
- Designed a **star-schema model**: Fact PitStops + Dim Driver, Constructor, Race, and Season.
- Built multi-page **Power BI dashboards** covering driver performance, constructor trends, and tire strategy.
- Key finding: faster and more consistent pit stops strongly correlate with improved finishing position; aggressive drivers gain early positions but lose pace on long stints.

F1 Season Winner Prediction Model — ML + Streamlit

[GitHub](#)

- Built an **XGBoost classification model** predicting the F1 season champion using performance consistency, pit-stop behavior, and driver competitiveness as features.
- Applied stratified train-test evaluation and hyperparameter tuning; visualized feature importance to explain model decisions.
- Deployed an interactive **Streamlit app** allowing users to upload datasets and receive ranked championship predictions with win probabilities.

Experience

Data Analytics Trainee — Digital Egypt Pioneers Initiative (DEPI)

Jun 2025 – Jan 2026

- Worked across the full analytics lifecycle: data cleaning, SQL, ETL, DAX modeling, dashboarding, and Python-based analysis.
- Delivered real-world BI projects covering KPI reporting, workflow automation, and model deployment.

AI Intern — IctHub Egypt

Summer 2024

- Built a logistic regression spam classifier, reducing manual email filtering effort.
- Developed a Gradio-powered chatbot for automated course inquiry handling.

Education

Arab Academy for Science, Technology and Maritime Transport (AAST), Cairo

B.Sc. Computer Science — Expected 2026 | GPA: 3.65 / 4.00 (Excellent)

Digital Egypt Pioneers Initiative (DEPI) — Data Analysis Track | Completed Jan 2026

Skills

Data Analysis & BI Power BI, DAX, Power Query, Excel, Tableau

Programming Python (pandas, numpy, matplotlib, seaborn, scikit-learn), SQL

Machine Learning Classification & Regression, Feature Engineering, Model Evaluation, Streamlit

Data Engineering ETL Automation, Star Schema Modeling, Data Cleaning Pipelines

Languages

Arabic: Native | **English:** Professional working proficiency