Mohamed El-sadek Mohamed

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SUMMARY

Data Analyst dedicated to extracting value from data. I specialize in using Python, SQL, and visualization tools like Power BI and Looker to clean, analyze, and interpret complex datasets. My experience includes building end-of-the-end projects with real-world data, from initial EDA to deploying machine learning models that support strategic decision-making.

EDUCATION

Zagazig University – BSc in Computer Science (Faculty of Computers and Information)

September 2021 – July 2025 | Overall Grade: Very Good | Graduation Project Grade: High Excellent

EXPERIENCE

Data Science Core Team Member - GDG Zagazig

Sep 2024 - Present | Zagazig

• Developed analytical dashboards that boosted member engagement by 25% and led data science workshops to support community growth.

Team Lead, Data Science - Byte Beam

Sep 2024 – Jul 2025 | Zagazig

- Led the end-to-end development of a machine learning model for skin disease classification, significantly improving diagnostic accuracy from image data.
- Oversaw the integration of application features to connect users with medical specialists.

Data Analytics Trainee – Digital Egypt Pioneers Program (DEBI)

Nov 2024 - May 2025 | Cairo

- Completed hands-on projects in sales and supply chain analysis using Power BI, SQL Server, DAX, and Tableau.
- Gained practical experience in data governance, Power Query, and Azure cloud services.

Frontend Intern (Best Member) – EGI Team

Sep 2022 - Sep 2023 | Zagazig

• Delivered key frontend features that enhanced UI/UX for web projects and collaborated on backend API integration.

PROJECTS

Classify Ocular Diseases 🔗 | TensorFlow, Keras, OpenCV

- Designed and trained a Convolutional Neural Network (CNN) to classify ocular diseases including glaucoma, diabetic retinopathy, cataracts, and ARMD.
- Applied image preprocessing techniques such as resizing, normalization, and data augmentation to improve model robustness.
- Achieved ~80% accuracy on unseen data, with visual validation using prediction-label comparisons for reliability assessment.

Coffee Quality Dashboard & | Power BI

- Built an interactive dashboard tracking cup score, production volumes, and defect types
- Analyzed how origin, altitude, and processing method affect coffee quality
- Visualized varietal and regional trends to guide quality improvements and strategy

Seoul Bike Rental Dashboard 🔗 | Power BI

• Created an interactive dashboard to analyze Seoul's bike-sharing data, focusing on key metrics like total rentals, seasonal trends, and daily patterns.

- Analyzed the impact of weather conditions, such as temperature and rainfall, on bike rental counts to identify key correlations.
- Provided actionable insights into peak rental hours and seasonal demand to optimize bike distribution and availability.

Pizza Shop Sales Dashboard 🔗 | Power BI, SQL Server

- Created an interactive dashboard to monitor key performance indicators such as total revenue, orders, and average order value.
- Conducted SQL-based analysis to extract and transform raw data into actionable insights for business decisions.
- Visualized sales by pizza category and time trends to support inventory planning and marketing strategy optimization.

Supply Chain Management Dashboard 🔗 | Power BI, SQL Server, Excel

- Developed an interactive dashboard to analyze product performance and supply chain efficiency.
- Performed extensive SQL-based data cleaning, validation, and analysis to derive actionable insights on revenue, costs, and inventory.
- Visualized key supply chain metrics including shipping costs, profit margins, lead times, and stock levels to optimize operations and inform strategic decisions.

Heart Failure Clinical Records Analysis 🔗 | SQL Server, Data Analysis

- Conducted comprehensive SQL analysis on heart failure clinical data to evaluate data integrity and uncover critical health patterns linked to patient outcomes.
- Generated actionable insights using statistical summaries, correlation metrics, and categorical breakdowns to support clinical decision-making.
- Identified high-risk patient segments by analyzing comorbidities and demographic factors, laying the groundwork for predictive modeling and data visualization.

Help Desk Performance Dashboard 🔗 | Power BI

- Developed an interactive dashboard to track key support metrics, including ticket volume, resolution times, and agent performance.
- Analyzed ticket data to identify trends by priority, source, and topic, providing insights into workload distribution and common issues.
- Visualized agent performance and SLA adherence to identify top performers and areas for operational improvement.

TECHNICAL SKILLS

- Programming & Databases: Python, SQL, C++, JavaScript, HTML/CSS, SQL Server
- Data Science & Machine Learning: Pandas, NumPy, Scikit-learn, TensorFlow, Keras, PyTorch, XGBoost, OpenCV, Data Cleaning, Feature Engineering, Model Evaluation
- Tools & Visualization: Power BI, Tableau, Matplotlib, Seaborn, Git, GitHub, Docker, Flask

SOFT SKILLS

- Communication & Team Collaboration
- Problem-Solving & Decision-Making
- Time Management & Organization

- Critical & Analytical Thinking
- Creativity & Innovation
- Adaptability & Continuous Learning

Certificates

- Data Analyst Associate
- SQL Associate

Power BI Desktop

Advanced DAX

Excel Formulas & Functions