

ABDELRHMAN AL GHONIMI

Junior AI & Data Scientist

Mansoura, Egypt

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Summary

- Junior AI and Data Scientist with hands-on experience in Machine Learning, Data Analysis, and Optimization Algorithms.
- Strong background in developing predictive models, data preprocessing, and applying optimization techniques to improve performance.
- Skilled in Python, Scikit-learn, Pandas, NumPy, SQL databases, and model evaluation methods.
- Experienced in building interactive dashboards and visualization tools to communicate insights clearly.
- Passionate about leveraging AI and Data Science to build scalable and impactful solutions for healthcare, education, and smart systems.

Education

New Mansoura University

Sep 2023 – Jun 2027 (Expected)

Bachelor of Science in Artificial Intelligence

New Mansoura, Egypt

- Relevant Coursework: Data Analysis, Database Management, Data Structures, Algorithm Analysis, Artificial Intelligence, Machine Learning, Software Methodology, Computer Architecture.

Creativa Innovation Hub – Mansoura

Jul 2025 – Present

Machine Learning & Data Science Training

- Intensive training focused on practical applications of ML, data preprocessing, and advanced algorithms.

Experience

ML / Data Science Projects

2024 – 2025

Project Work and Training

- Developed and optimized ML models achieving up to 90% accuracy on test datasets.
- Applied preprocessing, feature engineering, and model optimization that improved accuracy by more than 15%.
- Created dashboards with Pandas, Matplotlib, and Seaborn, reducing reporting time by 30%.
- Worked with SQL queries for extraction, cleaning, and reporting, improving efficiency by 25%.
- Collaborated with peers in small teams, demonstrating teamwork and leadership in technical problem-solving.

Projects

Smart Diagnosis System | Python, Pandas, SQLite, PyQt5

Dec 2025

- Built an intelligent system to diagnose diseases from symptoms using ML models.
- Achieved over 90% prediction accuracy using Decision Tree & Random Forest algorithms.
- Integrated an SQLite database and user-friendly GUI with PyQt5 for real-world usability.

Orchard Algorithm for Surgery Scheduling | Python

Jan 2025

- Modified and extended the algorithm to handle emergency cases automatically.
- Implemented scheduling optimization that reduced conflicts and waiting times by 20%.
- Simulated and validated results with real-world inspired datasets.

Technical Skills

Programming Languages: Python, Dart, C++, SQL

Frameworks / Tools: Pandas, NumPy, Scikit-learn, PyQt5, Flutter, SQLite, Supabase

Developer Tools: VS Code, Jupyter, Colab, MySQL, GitHub, Figma

Core Competencies: Data Preprocessing, Feature Engineering, Model Evaluation, Optimization Algorithms, Data Visualization

Soft Skills

- Communication – able to explain technical concepts to both technical and non-technical audiences.
- Teamwork – collaborated with peers on projects and hackathons, achieving successful outcomes.
- Leadership – led a team of developers in building AI-driven applications.
- Problem-Solving – applied creative solutions to optimize algorithms and improve workflows.
- Adaptability – quick to learn new tools, frameworks, and methods in data science.
- Time Management – balanced academic, training, and project deadlines efficiently.

Certifications

- Python Essentials 1 – Cisco
- Database Fundamentals & T-SQL – MaharaTech
- Machine Learning & Data Science Training – Creativa Innovation Hub (Ongoing)

Volunteering

- Al-Ekhlās Charity Association (2023–2025) – Volunteer & Organizer for community events and National Quran Competition, supporting youth and community development.