

Habiba Hegazy

AI & Data Engineer

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Professional Summary

Enthusiastic and adaptable Computer Science student with a solid foundation in data engineering and analytics. Skilled in data processing, database management, and problem-solving, with a strong ability to design, analyze, and optimize data solutions that support smart decision-making. Recognized for exceptional adaptability and teamwork, with a proactive mindset and a genuine passion for learning new technologies and applying technical knowledge to real-world data challenges to transform data into impactful insights.

Internships

DEPI - Digital Egypt Pioneers Initiative

July 2025 – Present

Microsoft Data Engineer

- **Coursework:** Python, OOP (Object-Oriented Programming), Data Structures and Algorithms, NumPy, Pandas, Matplotlib, Seaborn, Dash, SQL (MySQL), NoSQL (MongoDB), Data Warehouse and Modeling, Python for Databases and APIs, DBT, Airflow, Apache Hadoop.

Education

HNU - Helwan National University

November 2023 - Present

Bachelor's Degree in Computer Science and Artificial Intelligence – Data Science Major

- **Courses:** Advanced Programming, OOP (Object-Oriented Programming), Algorithms Design and Analysis, Data Structures, Advanced Database, Database Systems, Data Management, Artificial Intelligence, Machine Learning, Programming Fundamentals, Web Development, Digital Logic Design, System Analysis and Design, Probability and Statistics, Linear Algebra.

Projects

Sales Data Engineering & Analysis

- This project demonstrates the end-to-end data workflow of a retail dataset. Data was cleaned and transformed using Pandas & NumPy, stored in a SQLite database, and queried with SQL for insights. Visualizations were created with Matplotlib & Seaborn, highlighting sales trends, top-performing categories, and regional performance.

AI Chess Game

- Designed and implemented a Python-based chess engine that leverages artificial intelligence to analyze moves, optimize decision-making, and provide real-time strategic recommendations to players.

Retail Sales Analysis with SQL & Python

- Developed an end-to-end data analysis project to extract, clean, and analyze retail sales data using SQL and Python. Designed and executed complex queries to uncover sales trends, customer behavior, and product performance. Leveraged data visualization techniques to present insights that supported data-driven decision-making and business growth strategies.

Hotel Management App

- A comprehensive solution designed to streamline hotel operations. The app enables efficient handling of room reservations, customer check-ins and check-outs, billing, and staff management. With a user-friendly interface and reliable data handling

Social Media App

- Developed a responsive social media platform using HTML, CSS, and JavaScript, allowing users to create profiles, share posts, and interact with others. Implemented intuitive UI/UX design for seamless navigation and content engagement. Focused on front-end functionality and responsive design across devices

Technical Skills

- **Programming Languages:** Python, C, C++, SQL, Java.
- **Programming Concepts:** (OOP), Programming Logic, Problem Solving.
- **Data Visualization:** Matplotlib, Seaborn, Plotly, and Dash.
- **Data Engineering:** ETL Pipelines, SQL (MySQL), NoSQL (MongoDB), Apache Airflow, DBT.
- **Data Cleaning & Transformation:** Pandas, NumPy.
- **Data & Algorithms:** Data Structures, Algorithms, Advanced Database & Management.
- **Web & Development Basics:** HTML, CSS, JavaScript.
- **Artificial Intelligence & Data Science:** AI Concepts, ML Models, Data Analysis.

Soft Skills

- Problem-Solving & Critical Thinking
- Decision Making & Strategic Analysis
- Data Storytelling & Communication
- Collaboration & Teamwork
- Adaptability & Continuous Learning
- Time Management & Prioritization

Languages

- **Arabic** – Native Proficiency
- **English** - Excellent Proficiency

Extracurricular activities

- External affairs member at EDS 2018-2019
- Public relation member at Tedx youth 2022-2023