

Kareem Hamed

AI & Data Engineer

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

Professional Summary

Ambitious and results-driven Data Engineer & Data Scientist with a strong foundation in data engineering, machine learning, and analytics. I specialize in building scalable data pipelines, designing efficient ETL workflows, and developing intelligent systems that transform complex data into actionable insights. Skilled in Python, SQL, Power BI. I leverage both engineering precision and analytical creativity to deliver data solutions that drive performance and innovation. Passionate about turning raw data into business value, I'm committed to crafting reliable architectures and automations that empower smarter, faster decision-making.

Work Experience

Coding & Robotics Instructor – StemZone:

May 2025

- Taught programming and AI fundamentals through interactive, data-driven projects, guiding students in applying coding, automation, and analytical thinking to real-world problem-solving and intelligent system design.

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, Digital Logic Design, System Analysis and Design, Probability and Statistics, Linear Algebra.

Projects

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.

Movies Analytics Data Pipeline

- Designed and implemented an end-to-end ETL pipeline using Python (pandas, numpy) and SQLite to extract, clean, and analyze movie data from TMDB. Automated data transformation and ROI calculations,

then developed an interactive Dash dashboard to visualize key insights such as revenue trends, genre performance, and ratings distribution.

Gaming Streaming Website

- Developed a responsive, Steam-inspired gaming platform using **HTML, CSS, and JavaScript**, featuring interactive game pages, user-friendly navigation, and dynamic content for an engaging browsing experience.

Technical Skills

- **Programming Languages:** Python, C, C++, SQL, Java.
- **Programming Concepts:** (OOP), Programming Logic, Problem Solving.
- **Data Visualization:** Matplotlib, Seaborn.
- **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