

Ziad Mostafa

AI/ML Engineer

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Education

Benha University

B.Sc. in Computer Science

Benha, Egypt

Sep 2021 – Jun 2025

- GPA: 3.52/4.0
- Major: Artificial Intelligence
- **Thesis:** Machine-Generated Text Detection with Exam Grading System

Experience

Vice Head of Data Science and AI GDG On Campus BU (Student Activity)

Oct 2024 – Apr 2025

- Led the Data Science and AI team, mentoring members on AI/ML projects and organizing workshops.
- Facilitated over 200 hands-on training sessions for 1000+ members, enhancing technical skills.

Data scientist NTI (Training)

Jul 2024 – Aug 2024

- Utilized various ML algorithms, data preprocessing, and model evaluation techniques.
- Gained proficiency in ML tools and libraries for real-world data analysis.

Data Analyst Intern Enakl (Internship)

Jan 2024 – Mar 2024

- Cleaned, analyzed, and visualized data using Python, SQL, Looker Studio, and Google Colab.
- Conducted data quality assessments and created reports to support business decisions.

Skills

Programming Languages & Libraries: Python, SQL, Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib, Seaborn, Plotly, SQLite

Tools & Platforms: Power BI, Tableau, Excel, Azure, Git, GitHub, Docker, Linux

Concepts & Methodologies: Data Wrangling, OOP, Data Structures, Algorithms, Machine Learning, Deep Learning, NLP, Computer Vision

Soft Skills: Teamwork, Collaboration, Effective Communication, Problem-Solving, Analytical Thinking

Projects

Real-time Sign Language Recognition: Developed a real-time sign language recognition system using MediaPipe and TensorFlow, classifying 45 gestures from live camera feeds or images via a Streamlit interface.

Movie Recommendation System: Built a content-based movie recommendation system with Streamlit, leveraging TMDB data and scikit-learn to provide personalized movie suggestions with integrated API details.

Hourly Energy Consumption Prediction: Engineered an XGBoost model for accurate hourly energy consumption prediction, utilizing time-series analysis and feature engineering for robust forecasting.

Diamond Price Prediction: Created a machine learning model to predict diamond prices based on key attributes, applying data preprocessing and regression for precise value estimation.

Fake News Detection: Developed a fake news detection model using TF-IDF and classical ML classifiers (Logistic Regression, Naive Bayes), deployed via Streamlit for real-time article classification.

Courses & Certifications

- Microsoft Certified: Azure Data Scientist Associate [🔗](#)
- Machine Learning Specialization (Andrew Ng) - Coursera [🔗](#)
- Google Data Analytics Professional Certificate [🔗](#)
- IBM Data Analyst Professional Certificate [🔗](#)

Languages

Arabic: Native **English:** Very Good **German:** A1