

Ziad Tarek Elatawy

AI & Data Science Engineer

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Professional Summary

AI Engineer & NLP specializing in **Arabic LLMs, Generative AI, and RAG pipelines**. I excel at bridging the gap between complex technical architectures and strategic business ROI, ensuring AI solutions provide measurable administrative and operational value. With deep expertise in **Multi-Agent Systems** and **MLOps**, I have a proven track record of delivering end-to-end, scalable solutions for both global enterprises and high-impact independent projects. Committed to driving innovation through Python-based architectures that transform raw data into high-quality, actionable insights.

Technical Skills

- **AI & Generative AI:** Large Language Models (LLMs), Arabic NLP Specialist, RAG Pipelines, Multi-Agent Systems (CrewAI/LangGraph), Prompt Engineering, Fine-tuning.
 - **Machine Learning & Deep Learning:** Natural Language Processing (NLP), Computer Vision (CNNs), Transformers, Scikit-Learn.
 - **Data Engineering & Analytics:** Python (Advanced), SQL, Pandas, NumPy, Matplotlib, Seaborn, Feature Engineering.
 - **Deployment & MLOps:** FastAPI, Docker, RESTful APIs, Cloud Infrastructure (AWS), Model Versioning.
 - **Tools & Workflow Automation:** n8n (Advanced Workflows), Git & GitHub, Postman, Linux/Bash.
 - **Architecture & Design:** System Design, Scalable AI Architectures, Requirements Analysis, UML.
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Education

Bachelor of Science in Information Systems Damietta University | 2023 – 2027 (Expected)

Experience

AI & Data Science Trainee (Projects Lead) | DEPI | 2026 – Present

- **Projects Leadership:** Acted as a Team Lead for multiple **end-to-end AI projects**, managing a team of 5 members to ensure timely delivery, task delegation, and technical alignment with project requirements.

- **End-to-End ML Development:** Orchestrated full Machine Learning workflows, from advanced data preprocessing and feature engineering to model selection, hyperparameter tuning, and performance evaluation.
 - **Technical Problem Solving:** Architected and implemented data-driven solutions using Python (Pandas, Scikit-Learn, and LLMs) to solve complex analytical challenges and provide actionable business insights.
 - **Stakeholder Communication:** Delivered professional technical presentations and reports, bridging the gap between technical complexity and administrative value using advanced communication and leadership skills.
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Certifications

- **AI & Data Science Professional Certificate**, Digital Egypt Builders Initiative (**DEPI**) | 2026 – Present
 - *Comprehensive program covering the end-to-end AI lifecycle, including Data Engineering, Machine Learning, Deep Learning, and Advanced Analytics, with hands-on applications in real-world business scenarios.*
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Projects

Interactive Data Analysis Dashboard | Python, Streamlit/Plotly, Data Visualization

- Led a team of 5 to design and deploy an interactive dashboard for real-time data insights and trend analysis.
- Transformed complex datasets into actionable visualizations to support data-driven decision-making.

Hospital Management System | Python (OOP), JSON

- Developed a Python-based CLI system using OOP principles for efficient resource management (Patients/Staff).
 - Implemented data persistence via JSON and automated statistical reporting with robust input validation.
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Languages

Arabic: Native.

English: Professional Working Proficiency.