

# 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.

## 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* – Built a real-time dashboard, transforming complex datasets into actionable business insights.
  - **Hospital Management System** | *Python (OOP), JSON* – Engineered a CLI system with OOP principles and JSON persistence for efficient resource management and automated reporting.
  - **Boston Housing Predictor** | *Python, Scikit-learn, FastAPI* – Built an end-to-end ML web app using a fine-tuned Decision Tree Regressor and a high-performance REST API.
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## Languages

**Arabic:** Native.

**English:** Professional Working Proficiency.