

Mohamed Eslam Maklad

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EDUCATION

Delta University for Science and Technology

Bachelor of Science in Artificial Intelligence

Expected Graduation: 2028

Focus: Machine Learning, Data Science, Software Engineering

EXPERIENCE

Freelance Full-Stack AI Engineer

Remote — Global | Jan 2024 – Present

- Architecting and deploying **production-grade AI Agents** and scalable full-stack web applications.
 - Designing **agentic workflows** that connect LLM reasoning with real-world execution and user interfaces.
 - Key Achievement:** Built *Pyramid Agent*, a multi-agent system analyzing **30+ documents** to automate sci-fi series production planning.
 - Integrating **multi-modal AI tools** and automating pipelines using **N8N, WebSockets, and FastAPI**.
 - Applying Agile/Scrum methodologies to deliver scalable, maintainable, and production-ready systems.
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AI Trainer & Data Annotation Specialist

DataAnnotation.tech / Outlier | Mar 2024 – Present

- Conducting rigorous **RLHF (Reinforcement Learning from Human Feedback)** and code evaluation to reduce hallucinations and improve model reasoning.
 - Auditing AI outputs for **logical consistency, bias detection, and safety compliance**.
 - Developing Python scripts to automate and optimize large-scale data annotation workflows.
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PROJECTS

Pyramid Agent

Tech: Python, FastAPI, MongoDB, OpenAI, Docker, Redis

- Architected a **production-grade AI orchestrator** enabling structured planning, execution, and RAG-based retrieval.
 - Implemented advanced **prompt engineering** and multi-step agent reasoning with long-context retention.
 - Integrated multi-modal tools and automated workflows using **N8N** and **WebSockets**.
 - Deployed secure containerized infrastructure with caching and rate limiting.
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Nexus AI Platform

Tech: React, Node.js, Express.js, MongoDB, Socket.io

- Built a **production-ready data annotation SaaS platform** with real-time collaboration.
 - Designed an **AI-powered quality scoring system** for automated approve/reject decisions.
 - Implemented role-based dashboards, gamification mechanics, and analytics tracking.
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Interactive Data Dashboard

Tech: React, TypeScript, Chart.js, REST APIs

- Developed an **interactive analytics dashboard** for real-time data visualization and insights.
- Implemented dynamic charts, filters, and KPI tracking to support data-driven decision-making.
- Optimized frontend state management and API integration for smooth real-time updates.

- Designed the system to be easily extendable for AI-driven analytics and predictive insights.

Legal Document Simplifier

Tech: Python, Flask, Google Gemini 2.5 Flash

- Built an **AI-powered legal document analysis system** that simplifies complex legal text into clear summaries.
- Implemented structured prompt pipelines to extract key clauses, obligations, and potential risks.
- Reduced manual review time by automating document understanding using NLP techniques.

Election Campaign Website

Tech: React, TypeScript, Vite, Tailwind CSS

- Developed a modern **Arabic (RTL) single-page application** with AI-powered brand analysis.
- Implemented dynamic content management and interactive campaign tools.
- Optimized performance and accessibility for real-world political usage.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL (PostgreSQL), NoSQL (MongoDB), Bash

AI & ML: LLM Training, AI Agents, RAG, Prompt Engineering, RLHF, NLP, Data Annotation

Web & Backend: React, Node.js, Express.js, FastAPI, REST APIs, WebSockets

DevOps & Cloud: Docker, CI/CD, Git, GitHub, Ubuntu, Azure ,Vercel

Libraries & Frameworks:

OpenAI SDK, LangChain, Chart.js, Socket.io, Tailwind CSS, Redis, N8N, Mongoose

Data & Visualization: Interactive Dashboards, Analytics Systems

Languages: Arabic (Native), English (Professional)