Umar Mohasin

AI Engineer

Location: Dubai, UAE | **Residency:** UAE Golden Visa Holder

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Professional Summary:

Microsoft and NVIDIA Certified AI Engineer proficient in Python, SQL, and developing AI solutions. **Winner of the CodersHQ and Azure GenAI Hackathon (2024)**, demonstrating the ability to build and deploy production-ready AI solutions under tight deadlines. Seeking an AI/ML or Software Engineering roles that enables me to apply my skills to build impactful, high-quality solutions that drive measurable business value. Available to join immediately.

Core Competencies:

- **AI/ML:** Scikit-learn, Pandas, NumPy, Matplotlib, Supervised and Unsupervised Learning, Feature Engineering, Model Training, PyTorch, Generative AI (LLMs & RAG), NLP, MCP.
- **Tools & Platforms:** Microsoft Azure, Azure ML Studio, Azure OpenAI, Azure AI Foundry, n8n, PostgreSQL, Redis, NVIDIA AI and LLM tools.
- **Languages:** Python, SQL, JavaScript, TypeScript.
- **DevOps/MLOps:** MLflow, git, GitHub, pytest, Docker, Kubernetes.

Work Experience:

Associate AI Engineer   **August 2025 – Present**

CUBO Systems International

Projects:

Full-Stack AI Chatbot   **September 2025**

Developed an AI chatbot with a secure backend and a user-friendly web interface. Users can sign in (JWT/OAuth2), upload files (RAG implemented), and chat in real-time with LLM models using OpenRouter API. Built using NestJS (backend), React, PostgreSQL, Prisma ORM, and Redis.

PostgreSQL MCP Server   **July 2025**

Developed a comprehensive Model Context Protocol (MCP) server using Python and the FastMCP library that provides CRUD and querying capabilities for PostgreSQL databases using LLMs.

Email Summarizer Agent   **May 2025**

Developed a Python command-line tool that automatically retrieves unread Gmail messages and generates concise summaries using a local AI model (Hugging Face BART-large-CNN).

Predictive Vehicle Maintenance System   **February 2025 – May 2025**

Developed a Python-based system using machine learning models (Random Forest, LightGBM) to forecast vehicle maintenance needs from sensor data, with MLflow for experiment tracking and model versioning, and a user-friendly web UI built with React.js and Tailwind CSS.

Certifications and Achievements:

- **Winner - GenAI Hackathon:** CodersHQ & Azure Middle East
  Developed a Generative AI and RAG solution with my team that assists farmers with crop yield optimization and efficient stock management using Azure AI. From ideation to deployment and demonstration in under 48 hours.
- **NVIDIA Certified Associate**: Generative AI and LLMs (NCA-GENL)
- **Microsoft Certified:** Azure Data Scientist Associate (DP-100)
- **Microsoft Certified:** Azure AI Engineer Associate (AI-102)
- **Microsoft Certified:** Azure Administrator Associate (AZ-104)

Education:

BSc Computer Science: **September 2022 – July 2025**

University of West London