MALIHA MEHNAZ

Innovation Team Manager

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🪪 PROFESSIONAL SUMMARY

AI Solutions Architect with **6+ years of experience** designing, deploying, and scaling production-grade AI/ML and generative systems on Azure. Proven record of improving enterprise efficiency and reducing cloud costs through optimized MLOps, LLM-based automation, and strategic AI adoption. Experienced in building retrieval-augmented and agentic AI pipelines that transform data into measurable business outcomes.

💼 PROFESSIONAL EXPERIENCE

Innovation Team Manager   2024/08 – Present
Dexian Bangladesh 🔗
- Architected and deployed 10+ enterprise-grade AI/ML solutions using LangGraph, LangChain, and Azure OpenAI improving operational efficiency by 12% & reducing manual workloads.
- Built standardized MLOps pipelines using Docker, MLflow, and CI/CD, reducing release cycles from 2 weeks to 5 days while improving deployment reliability.
- Developed retrieval-augmented generation (RAG) architecture using vector databases, enhancing model precision and increasing client adoption rate
- Led a cross-functional team of 8 AI engineers and data scientists, driving best practices in experimentation, deployment, and architecture design.

Senior Executive - Artificial Intelligence   2021/12 – 2024/07
Nitol Motors Limited 🔗
- Built predictive models using Scikit-learn and XGBoost, saving ~$9,000 annually.
- Improved customer segmentation accuracy by 28% through advanced feature engineering and model optimization.
- Developed Power BI dashboards for real-time analytics, cutting decision latency by 35% in 2 projects.
- Mentored a 5-member AI team, improving code quality, sprint velocity, and ML best-practice adoption by 20%.

Assistant Programmer   2018/12 – 2021/12
Golden Harvest Infotech Limited 🔗
- Developed Python-based automation scripts and APIs that saved over 300 staff hours monthly through workflow optimization.
- Created ML-powered analytics dashboards with Scikit-learn and Plotly, improving reporting efficiency by 18%.
- Preprocessed and cleaned 500K+ structured and unstructured data points.
- Optimized backend logic, reducing server response time by 20% and improving API performance.

🧠 CORE COMPETENCIES

Programming & Frameworks
Python, FastAPI, React, TensorFlow, PyTorch, Scikit-learn, LangChain, LangGraph

AI & Machine Learning
LLMs, Agentic AI Systems, RAG Pipelines, NLP, Deep Learning, Feature Engineering

Cloud & DevOps
Azure, AWS, Docker, CI/CD, MLflow, GitHub Actions, MLOps

Data & Visualization
SQL, PostgreSQL, MongoDB, Vector & Graph Databases, ETL Pipelines, Pandas, NumPy, Power BI, Plotly, Matplotlib, Seaborn, Grafana

Leadership
Agile/Scrum, Solution Architecture, Team Mentorship, Stakeholder Management

📁 SELECTED PROJECTS

ChatDocs – Document assistant enabling semantic Q&A.
Tech: React, FastAPI, PostgreSQL, LangChain, LLM, RAG

RoleplAI – Real-time conversational simulator for training and evaluation.
Tech: Azure Whisper, Azure Cognitive Services, Snowflake, PyDub, LLM, Streamlit

Article Agent – Multi-agent research assistant for automated generation, summarization and validation.
Tech: Python, LangGraph, Pinecone, DuckDuckGo Search

ATS Compatibility – Resume scoring using hybrid NLP and semantic search.
Tech: FastAPI, Gemini, Hybrid Search, JWT Authentication

AgentFlow – Natural language to pipeline automation tool for MLOps deployment.
Tech: LangGraph, Azure AI Foundry, Docker, GitHub Actions

🎓 EDUCATION

Master of Information Technology   2019 – 2021
University of Dhaka 🔗

Bachelor of Science in Computer Science & Engineering   2013 – 2018
BRAC University 🔗

🏅 KEY ACHIEVEMENTS

Awarded for **technical excellence & leadership** in driving digital transformation at **Dexian**.

Received **Performance Bonus** for accelerating innovation at **Golden Harvest InfoTech.**

🗣️ LANGUAGE PROFICIENCY

IELTS General
Overall Band 7.5 [Listening: 8.0 | Reading: 7.5 | Writing: 7.0 | Speaking: 7.5]

PTE Academic
Overall Score 82 [Listening: 79 | Reading: 90 | Writing: 89 | Speaking: 76]