

Mohammed Shakeebuddin Mehran

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Hyderabad, Telangana, India

EDUCATION

Lords Institute of Engineering and Technology, Hyderabad, India

2023 – Expected 2027

B.E. in Computer Science and Engineering (AI & ML) (CGPA: 8.5/10.0)

- Head of Media & Core Organizer, HackPrix (Seasons 2 & 3): led media strategy and branding for hackathon tracks with 3,500+ applicants and 550+ onsite participants
- Head of Media, ArtiGenz: led creative direction and AI developer workshops; coordinated ecosystem collaborations including TryCursor AI

PROJECTS

AstroSafe – Space Station Safety Object Detection | *Python, YOLOv8, OpenCV*

1st Place, AI Track – HackAura

- Trained and fine-tuned a YOLOv8 model solo on ~2.5K labeled space-station images, achieving 79% mAP@50, 66% mAP@50-95, 92% precision, and 71% recall on safety-critical objects (helmets, fire extinguishers, tools)
- Built the end-to-end inference pipeline with OpenCV annotation and a Gradio interface, integrated with Duality AI Falcon virtual camera feeds and deployed on Vercel
- <https://github.com/Ibrahim-Nazeer/astro-safe>

Kronos – Autonomous Incident Response Agent | *Python, FastAPI, LLMs*

2nd Place, Quackathon 2026

- Contributed to an autonomous SRE agent (team of 4) that parses production alerts, retrieves code context, and generates LLM-driven diagnoses as automated pull requests or GitHub issue escalations
- Integrated Grafana and Loki for real-time alert ingestion and log retrieval; containerized services with Docker as part of the observability stack
- Helped build Parcle, a persistent incident-memory layer that fingerprints incidents (alert type + functions + error signatures) to reuse prior diagnoses and cut redundant investigation
- <https://github.com/Mehrxn/quackathon-Kronos>

VisNeuclea – OpenAPI-to-MCP Conversational Agent Platform | *Go, TypeScript, MCP, WebSockets, ReAct*

- Built the OpenAPI parser for Vis, a TypeScript code generator that converts OpenAPI 3.x specs into typed MCP servers for a Go-based ReAct agent gateway
- Contributed to a token-efficient agent architecture with ~5x lower token usage via truncated tool descriptions and required-parameter-only schemas
- <https://github.com/Nuryss/Vis-Neuclea>

SKILLS

Languages: Python, C, Java, SQL, Ruby, Dart, HTML5/CSS3

AI/ML & Agentic Systems: PyTorch, TensorFlow, scikit-learn, OpenCV, YOLOv8, Model Context Protocol (MCP), LangChain, LangGraph, LLMs, Hugging Face, NumPy, Pandas

Backend & Web: FastAPI, Django, RESTful APIs, WebSockets, Streamlit, MySQL

DevOps & Observability: Docker, Prometheus, Loki, Grafana, Tempo, Promtail, Git, Linux, Vercel