

ATHAR SAYED

ACADEMIC DETAILS

Mukesh Patel School of Technology, Management & Engineering, NMIMS	2024 - 2026
• M. Tech. – Artificial Intelligence (CGPA: 8.82/10)	
Symbiosis Institute of Engineering and Technology, Symbiosis International University	2019 - 2023
• B.Tech. – Electronics & Telecommunication Engineering	
• Honors in Mechatronics & Automation (CGPA: 7.11/10)	

PROJECTS

StreamPulse – Real-Time E-Commerce Analytics Platform (Code)	2025
• Built a real-time streaming analytics pipeline using Apache Kafka and Spark Structured Streaming , processing 1,000+ events/min with <2s end-to-end latency.	
• Implemented stream ingestion, windowed aggregations, and fault-tolerant processing to compute live revenue trends, transaction rates, and top-selling products.	
• Developed a Streamlit dashboard with 8+ interactive visualizations for real-time monitoring of sales, geography, and product performance.	
Context-Grounded LLM Assistant for Recruiter-Facing AI Search (Live)	2025
• Developed a production-grade LLM conversational assistant integrated into a live portfolio, enabling natural-language search across 10+ projects, skills, experience, and publications.	
• Implemented a context-grounded inference pipeline with dynamic resume and page-content injection, ensuring context-bounded, hallucination-resistant responses via strict prompt constraints.	
• Built a serverless GenAI backend on Vercel using LLaMA-3.1-8B-Instruct , configured with temperature = 0.3 and max_tokens = 400 for deterministic, concise outputs.	
IntelliTube – AI-Powered YouTube Insight Engine (Code)	2025
• Developed an end-to-end YouTube video analysis platform supporting 100% local execution with no external APIs, enhancing data privacy and reducing latency by 70% .	
• Engineered audio processing pipeline using Faster Whisper , achieving 95% transcription accuracy on diverse video inputs.	
• Designed a multilingual sentiment analysis engine that scrapes and classifies 100+ comments per video with 91% accuracy , including automatic translation for non-English content	
• Implemented secure user authentication with encrypted login/signup workflows, enabling personalized access up to 50+ users .	
Vigilix: Network Intrusion Detection & Monitoring System (Code)	2025
• Developed a Network Intrusion Detection System (NIDS) using the UNSW-NB 15 dataset, achieving 80%+ accuracy in intrusion detection.	
• Evaluated machine learning models (XGBoost, Random Forest, Isolation Forest), with XGBoost achieving 87.95% accuracy , 85.35% precision , and 89.61% F1-score .	
• Optimized XGBoost performance through hyperparameter tuning, improving accuracy by 13% (from 78.91% to 87.95%) and F1-score by 5.25% .	
• Automated end-to-end project workflow by integrating Kafka, Prometheus, Grafana and a custom dashboard, enabling 99.9% uptime .	

WORK EXPERIENCE

Technical Intern

FortytwoLabs, Pune, India	Jan 2023 - May 2023
• Contributed to maintaining CI/CD pipelines by writing YAML scripts and debugging build issues under guidance.	
• Assisted in configuring Nginx and Linux-based reverse proxy setups to optimize application routing & improve deployment reliability	
• Configured Apache ActiveMQ within Docker containers on CentOS, enabling reliable message brokering and client-server communication.	
• Deployed Java-based web applications by packaging and deploying WAR files on Apache Tomcat, ensuring stable server-side execution.	

Software Engineer

FortytwoLabs, Pune, India	June 2023 - July 2024
• Managed build and release processes for 6+ production C++ libraries, ensuring stable cross-platform deployment (Linux, Windows, macOS).	
• Implemented cryptographic features (e.g., policy signature modules), enhancing security and reducing processing time by 40% .	
• Worked on 143 unit tests using Google Test (GTest) and JUnit , achieving 95% code coverage and reducing bugs by 50% .	
• Used Postman and JMeter for API and performance testing, improving system performance by 25% .	
• Authored comprehensive documentation for 100+ error codes , which slashed average troubleshooting time by 30% .	
• Collaborated with QA, DevOps, and Product teams , contributing to faster and more reliable software releases.	

CERTIFICATIONS

• Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate - Oracle	2025
• Oracle Cloud Infrastructure 2025 Certified Generative AI Professional - Oracle	2025

PUBLICATION

• IOT Based Crowd Detection and Stampede Avoidance using Predictive Analysis - IEEE Xplore · Apr 4, 2023	2023
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SKILLS

• Programming & Analytics: Python C++ C
• Tools & Libraries: TensorFlow PyTorch Keras Streamlit Gradio Fast-API Flask Apache Spark Kafka
• Cloud & LLM/Agentic AI Frameworks: LangChain RAG Agentic AI Model Context Protocol (MCP) Oracle Cloud - AI GCP
• DevOps & MLOps: Docker Kubernetes Jenkins Version Control Git Prometheus Grafana Kubeflow CI/CD
• Databases: MongoDB SQL MySQL
• Non-Technical Skills: Leadership Analytical Thinking Cross-Functional Collaboration Technical Communication

EXTRA CURRICULAR

- Participated in 5+ National and College-level Hackathons
- Placement Coordinator, M.Tech AI Batch