

# ATHAR SAYED

## ACADEMIC DETAILS

<b>Mukesh Patel School of Technology, Management &amp; Engineering, NMIMS</b>	<b>2024 - 2026</b>
• M. Tech. – Artificial Intelligence (CGPA: 9.10/10)	
<b>Symbiosis Institute of Engineering and Technology, Symbiosis International University</b>	<b>2019 - 2023</b>
• B.Tech. – Electronics & Telecommunication Engineering	
• Honors in Mechatronics & Automation (CGPA: 7.11/10)	

## PROJECTS

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

## WORK EXPERIENCE

### Technical Intern

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

## CERTIFICATIONS

• <a href="#">Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate - Oracle</a>	<b>2025</b>
• <a href="#">Oracle Cloud Infrastructure 2025 Certified Generative AI Professional - Oracle</a>	<b>2025</b>

## PUBLICATION

• <a href="#">IOT Based Crowd Detection and Stampede Avoidance using Predictive Analysis - IEEE Xplore · Apr 4, 2023</a>	<b>2023</b>
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## SKILLS

• <b>Programming &amp; Analytics:</b> Python   C++   C
• <b>Tools &amp; Libraries:</b> TensorFlow   PyTorch   Keras   Fast-API   Flask   Apache Spark   Kafka
• <b>Cloud &amp; LLM/Agentic AI Frameworks:</b> LangChain   RAG   Agentic AI   Model Context Protocol (MCP)   Oracle Cloud - AI   GCP
• <b>DevOps &amp; MLOps:</b> Docker   Kubernetes   Jenkins   Version Control   Git   Prometheus   Grafana   Kubeflow   CI/CD
• <b>Databases:</b> MongoDB   SQL   MySQL
• <b>Frontend &amp; Full-Stack :</b> React.js   JavaScript   REST APIs   Streamlit   Gradio   nodejs

## EXTRA CURRICULAR

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