

**ATHAR SAYED****ACADEMIC DETAILS**

<b>Mukesh Patel School of Technology, Management &amp; Engineering, NMIMS</b>	<b>2024 - 2026</b>
<ul style="list-style-type: none"><li>M. Tech. – Artificial Intelligence (CGPA:8.82/10)</li></ul>	
<b>Symbiosis Institute of Engineering and Technology, Symbiosis International University</b>	<b>2019 - 2023</b>
<ul style="list-style-type: none"><li>B.Tech. – Electronics &amp; Telecommunication Engineering</li><li>Honors in Mechatronics &amp; Automation (CGPA: 7.11/10)</li></ul>	

**PROJECTS**

<b>IOT Based Stampede Detection System</b>	<b>2023</b>
<ul style="list-style-type: none"><li>Developed an IoT-based system to detect stampedes using data from four vibration sensors.</li><li>Created an <b>in-house dataset</b> consisting of sensor readings (independent variables) &amp; a binary stampede indicator (dependent variable).</li><li>Conducted <b>data preprocessing with 2K</b> data samples and optimized model performance</li><li>Trained a Logistic Regression model, achieving <b>93% accuracy</b> in classification.</li></ul>	
<b>Predictive Analysis of Stress Based on Vital Physiological Metrics</b>	<b>2024</b>
<ul style="list-style-type: none"><li>Built a real-time stress detection system using wearable data, improving response <b>accuracy by 25%</b>.</li><li>Designed a real-time visual meter to predict the stress level of a person using visual meter (<b>0-100%</b>).</li><li>Deployed on <a href="#">Hugging Face Spaces</a> using Docker.</li></ul>	
<b>ScriptSense: Personality Prediction from Handwriting using Deep Learning &amp; Graphology</b>	<b>2025</b>
<ul style="list-style-type: none"><li>Leveraged <b>CNN-based</b> deep learning and rule-based graphology to analyze handwriting and predict personality traits such as introversion/extroversion, emotional stability, and discipline.</li><li>Enhanced overall model accuracy by <b>7% through</b> integration of graphological features, increasing robustness and interpretability.</li><li>Hosted on <a href="#">Streamlit</a> and <b>deployed</b> on <a href="#">Hugging Face Spaces</a>, making it publicly accessible scaling to 100+ users with <b>91% uptime</b>.</li></ul>	
<b>IntelliTube – AI-Powered YouTube Insight Engine</b>	<b>2025</b>
<ul style="list-style-type: none"><li>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>.</li><li>Engineered audio processing pipeline using <b>Faster Whisper</b>, achieving <b>95% transcription accuracy</b> on diverse video inputs.</li><li>Built a multilingual sentiment engine to scrape and analyze <b>100+ YouTube comments per video</b>, translating non-English content and classifying sentiment into positive, neutral, and negative categories with <b>91 % accuracy</b>.</li><li>Implemented <b>secure user authentication</b> with encrypted login/signup workflows, enabling personalized access up to <b>50+ users</b>.</li></ul>	
<b>GradTrack: Academic Dashboard for M.Tech Scholars</b>	<b>2025</b>
<ul style="list-style-type: none"><li>Developed and deployed an interactive academic analytics dashboard for 44 M.Tech students using Streamlit, reducing manual reporting by <b>80%</b>.</li><li>Created <b>10+ dynamic visualizations</b> with Matplotlib and Plotly to highlight key trends in academic performance and participation.</li></ul>	

**WORK EXPERIENCE**

<b>Technical Intern</b>	
FortytwoLabs, Pune, India	<b>2023</b>
<ul style="list-style-type: none"><li><b>Contributed to maintaining CI/CD pipelines</b> by writing YAML scripts and debugging build issues under guidance.</li><li><b>Assisted in configuring Nginx and Linux-based reverse proxy setups</b> to optimize application routing &amp; improve deployment reliability</li><li><b>Configured Apache ActiveMQ within Docker containers on CentOS</b>, enabling reliable message brokering and client-server communication.</li><li><b>Deployed Java-based web applications</b> by packaging and deploying WAR files on Apache Tomcat, ensuring stable server-side execution.</li></ul>	
FortytwoLabs, Pune, India	<b>2023-2024</b>
<ul style="list-style-type: none"><li>Built and maintained <b>6+ production-ready C++ libraries</b> with cross-platform support (Linux, Windows, macOS), achieving <b>100% build stability</b> and reducing integration issues by <b>30%</b></li><li>Implemented cryptographic features (e.g., policy signature modules), enhancing security and reducing processing time by <b>40%</b>.</li><li>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>.</li><li>Used <b>Postman</b> and <b>JMeter</b> for API and performance testing, improving system performance by <b>25%</b>.</li><li>Documented <b>100+ error codes</b>, improving client troubleshooting efficiency and decreasing support tickets by <b>40%</b>.</li><li>Collaborated with <b>QA, DevOps, and Product teams</b>, contributing to faster and more reliable software releases.</li></ul>	

**CERTIFICATIONS**

- [Complete Python from Beginner to Master – Udemy](#)
- [Intermediate Machine Learning - Kaggle](#)
- [Linux Mastery Mastering the Command Line - Udemy](#)
- [Google Cloud Skills Boost Course on LLM, Vertex AI, Gemini & Principles of Google Cloud](#)

**PUBLICATION**

- [IOT Based Crowd Detection and Stampede Avoidance using Predictive Analysis - IEEE Xplore · Apr 4, 2023](#)

**SKILLS**

- Programming & Analytics:** Python | C++ | C | DSA
- Tools & Libraries:** NumPy | Pandas | Matplotlib | Seaborn | Scikit-Learn | Keras | Tensorflow | Pytorch | Streamlit Gradio | OpenAI | Langchain | Postman | PySpark | Docker | Git | Gitlab | Kubernetes
- Database Management:** MongoDB | PostgreSQL | MySQL
- Operating Systems:** Ubuntu | Windows | Raspberry Pi OS | Debian | CentOS | MacOS
- Areas of Interest:** Machine Learning | Deep Learning | LLM | IOT
- Non-Technical Skills:** Leadership | Time-Management | Creativity | Teamwork | Critical Thinking

**EXTRA CURRICULAR**

- Student Volunteer at IGiftLife Social Service NGO
- Technical head at Vidyut Techfest
- Placement Coordinator, M.Tech AI Batch