

Atharva Kawtikwar

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Education

Mukesh Patel School of Technology Management and Engineering (NMIMS University), Aug 2022 – June 2026
BTech in Information Technology, CGPA: 3.4/4

Work Experience

Software Development Intern, Lifespark Technologies Jan 2026 – April 2026

- Built an automated patient data processing pipeline in Python to standardize wearable sensor data (FTSTS, TUG, CSRT, SLS) into structured CSV schemas for downstream analytics.
- Implemented signal preprocessing techniques including median filtering, z-score normalization, and threshold-based validation to improve noise reduction and movement classification accuracy.
- Designed scalable data validation workflows with configurable thresholds and directory-level automation, reducing manual preprocessing effort and improving consistency across patient datasets.

Web Developer Intern, UNISERVED Tech Solutions Ltd Aug 2024 – Nov 2024

- Developed a Django-based geospatial system storing 150K+ Indian pincodes with lat/long and state metadata for fast coordinate and state-wise lookups.
- Built a GET API to fetch neighboring pincodes within 10 km using the Haversine formula and state adjacency mapping, reducing manual effort by 85%.
- Automated proximity storage via the NearbyPincode model and integrated a simple frontend for real-time geospatial queries.

Data Engineering Intern, Jio Platforms Ltd May 2024 – Jul 2024

- Optimized large-scale ETL pipelines using Apache Spark and Hive, reducing execution time by 30% and improving workflow throughput.
- Developed PySpark jobs processing 1M+ daily records for enrichment and warehousing, ensuring scalability and reliability.
- Automated ETL scheduling and monitoring with Apache Airflow, minimizing manual intervention and improving fault tolerance.
- Worked with HDFS and collaborated with frontend teams on AngularJS integrations to align backend data services with product needs.

Projects

CircleAI-Intelligent Resale Listing Agent [Project Link](#)

- Built Circle-AI, a personalized AI assistant platform enabling privacy-focused task automation and intelligent user interactions using web technologies and cloud integration.
- Designed a lightweight AI interface with real-time response handling and modular frontend architecture, enabling seamless execution of everyday AI-driven tasks.

AI-Powered Book Recommendation Chatbot [Project Link](#)

- Built an AI-powered book recommendation chatbot using Python, leveraging a Retrieval Augmented Generation (RAG) pipeline with LangChain for contextual query handling.

Quantitative Options Strategy with ML-Enhanced Signals [Project Link](#)

- Developed a quantitative trading strategy by engineering a composite signal from technical indicators, training a predictive ML model, and executing a comprehensive backtest on an ATM short-option strategy to generate a full performance analysis.

Achievements & Certifications

SPIT Rotary Club Hackathon Finalist, Two-time Finalist at Cyber Cypher Hackathon by TAQNEEQ and NMIMS AI Hackathon
AWS Academy Graduate - AWS Academy Cloud Foundations

Technology Stack & Skills

- Programming Languages:** C++, Python, SQL, PHP, JavaScript
- Software Development:** NodeJS, ExpressJS, Django, NextJS
- Databases & APIs:** PostgreSQL MySQL, REST API
- AI/ML & Data:** Generative AI, LangChain, ML (Machine Learning), Pandas, NumPy, ETL, Apache Spark, RAG
- DevOps & Cloud:** AWS, CI/CD, Git, Postman
- Soft Skills:** Teamwork, Communication, Problem-Solving, Leadership, Adaptability

Leadership Experience

Technical Head, ACM MPSTME July 2023 – May 2024

- Led 30+ member team across multiple domains, mentoring juniors and organizing events with registration over 500 people.

Events Head, TAQNEEQ July 2024 – May 2025

- Led 20+ member team to organize various events for the college technical fest that attracts more than 1000 people.