

Atharva Jitendra Deshmukh

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EDUCATION

Institute of Technical Education and Research, Bhubaneswar Bachelors of Technology (B.Tech) in Computer Science and Engineering, CGPA(till 5th Sem)- 8.71	2022-2026(Pursuing)
Baldwin Farm Area High School, Jamshedpur AISSCE, New Delhi, Pure Science with Computer Science, Aggregate – 86.6%	2021-2022
Baldwin Farm Area High School, Jamshedpur AISSE, New Delhi, Aggregate – 89%	2018-2019

EXPERIENCE

Teezash Technologies Full Stack IoT Intern Developed a real-time IoT gas detection system using ESP32, MQTT, and AWS IoT Core with secure onboarding via Fleet Provisioning by Claim and remote management through AWS IoT Fleet Manager. Integrated AWS services including Device Shadow, Lambda, DynamoDB, and SNS for state synchronization and event-driven alerts, while enabling real-time monitoring through Telegraf, InfluxDB, and Grafana. Implemented a cloud analytics pipeline using AWS Glue, S3, Athena, and QuickSight for time-series data cataloging, SQL-based querying, and interactive dashboard for real time insights.	March 2025 -Present
AshXpert IoT Intern Developed an IoT-based intelligent traffic monitoring system using ESP32, integrated with CCTV, tyre killers. Implemented MQTT-based communication for secure, lightweight data transmission between IoT nodes and the cloud backend, facilitating remote monitoring, system diagnostics, and automated fine issuance.	January 2025 - March 2025

PROJECTS

ANGIOSENSE (INNOWAVE 2.0 Winner) Developed a non-invasive, cost-effective alternative to angiography using Bioimpedance and PPG principles, integrating IoT to enhance cardiovascular diagnostics and minimize risks associated with radiation exposure. Implemented advanced signal processing algorithms in Python for accurate Bioimpedance and PPG data analysis, ensuring reliable and precise diagnostic results.	January 2025
ALERTIFY (RTOS, AWS IoT Core, Espressif IDF 5.0) Built an IoT device for real-time earthquake detection using ESP32, FreeRTOS, and AWS IoT Core with Espressif IDF. Integrated ground activity sensors to trigger automated evacuation alerts and managed tasks via FreeRTOS for reliable real-time operation.	November 2023
CRIME VISION (Rajasthan Police Hackathon Finalist) Deep Learning, Open-CV Developed a CCTV-based surveillance system using AI-powered suspicious activity detection and human face recognition. Used OpenCV for real-time object detection, motion tracking, and facial recognition to enhance threat identification accuracy.	February 2024
RESCON (NIRMAN 3.0 1st Runner Up) LoRa-WAN, MQTT, GPS Module Engineered a GPS-based rescue device for mountaineers and high-altitude personnel, delivering real-time distress alerts over LoRa-WAN and MQTT. Implemented long-range, low-power communication between device and base station using the LoRa-WAN protocol, suitable for trekkers and military operations in high-altitude environments.	April 2024

SKILLS SET

- **Programming/Frameworks:** C, C++, Open-CV, Python.
- **Specialization:** Real Time Operating System (RTOS), AWS IoT Core, Sensor Integration.
- **Platform knowledge:** Amazon Web Services (AWS), ESP-IDF, InfluxDB, Grafana, Telegraf, Arduino IDE, VS Code, PlatformIO, Jira, Confluence, Github.
- **Core Knowledge:** Computer Networks, Operating System, Databases, Compiler Design, OOPS.
- **Soft Skills:** Sprint Learner, Effective Communicator, Analytical Thinking, Teamwork.
- **Languages:** English (Fluent), Marathi (Native), Hindi (Fluent).

ACHIEVEMENTS

- **METASOFT 2024 2nd International Conference (Winner 1st Prize):** Conference on Metaheuristics in Engineering and its Applications organized by the Department of Computer Application, Siksha 'O' Anusandhan University.
- **TRITHON (Winner 1st Prize):** 24-hour Hackathon organized by Trident Group.
- **SYNCHRONIZE 2.0 (1st Runner Up):** 12-hour Hackathon organized by XIM University, Bhubaneswar.
- **E-Summit B-Plan (Winner 1st Prize):** A business pitch competition organized by IIT Bhubaneshwar.
- **NIRMAN 3.0 (1st Runner Up):** Ideathon prototype presentation organized by Silicon University, Bhubaneswar.
- **NIRMAN 3.0 (2nd Runner Up):** 12-hour Hackathon organized by Silicon University, Bhubaneswar.
- **E-Summit Hackathon (2nd Runner Up):** 24-hour Hackathon organized by ITER, SOA University.
- **E-Summit Ideathon (Special recognition for Product Prototype):** Ideathon organized by ITER, SOA University.
- **GGV IDEATHON 2024 (1st Runner Up):** A National level Ideathon organized by GGV Bilaspur, Chhattisgarh.
- **UTKARSH ODISHA:** Presented at UTKARSH ODISHA make in Odisha Conclave'25.