

Mudit Mehta

[+91 9810643021](tel:+919810643021) | muditmehta@outlook.in | github.com/muditmehta07 | [linkedin.com/in/muditmehta07](https://www.linkedin.com/in/muditmehta07)

Experience

Addverb Technologies

Noida, Uttar Pradesh (On-site)

Robotics Intern

Jun 2025 - Aug 2025

- Built and deployed a customer-facing error monitoring dashboard for the live Fleet Management System, including REST APIs, backend services, and third-party integrations used by robot operators in production.
- Reduced localization drift in autonomous mobile robots by implementing IMU and odometry sensor fusion using an Extended Kalman Filter (EKF) within a ROS-based navigation stack.
- Debugged and resolved issues across the FMS codebase in an Agile team environment, participating in daily scrums.
- **Keywords: C++, TypeScript, Docker, MongoDB, Redis, AngularJS**

Wipro Limited

Bengaluru, Karnataka (Hybrid)

Project Intern

Jan 2024 - Aug 2024

- **Project:** Software Installation Agent (Bound by NDA)
- Built an internal AI agent using LangChain and OpenAI that recommends relevant proprietary applications based on natural language queries, enabling on-the-go access to matched tools.
- Integrated an Azure Vector Database as the retrieval backend, enabling semantic search across a catalogue of applications.
- **Keywords: LangChain, OpenAI, Azure Vector Database, Python**

HP, Inc.

Gurugram, Haryana (On-site)

Intern

Jul 2023 - Aug 2023

- **Project:** AI in Retail
- Researched and evaluated AI tool providers for customer tracking and store analytics across 700+ HP World retail locations, producing a shortlist of implementation-ready vendors.

Swar Kala Sangam

Gurugram, Haryana (On-site)

Software Development Intern

Jan 2022 - Jul 2022

- Deployed and maintained a production web application on AWS, resolving 15+ backend support issues to sustain uptime.
- **Keywords: HTML, CSS, JavaScript, AWS**

Projects

Autonomous Shopper Assistance System

Sep 2025 - Mar 2026

- **Project Repository:** <https://github.com/muditmehta07/asas>
- Engineered a ROS2-based autonomous retail robot using Nav2 and SLAM Toolbox in a Gazebo-simulated supermarket, achieving >95% navigation success rate across low-light, high-traffic, and dynamic obstacle scenarios.
- Built a ReactJS dashboard with real-time 2D occupancy mapping and live robot feed, with communications with <20ms latency.
- **Keywords: ROS2, Gazebo, Rviz2, Nav2, ReactJS, Fast API, MongoDB, Docker, Python**

Publications

Robust Localization and Mapping of Autonomous Robots in Challenging Spaces via Thermal-LiDAR Fusion

Awaiting Publish

- Associated with *Autonomous Shopper Assistance System*.
- Co-authored with *Dr. Sunil Pathak (Head of Department, Amity School of Engineering & Technology, Rajasthan)*
- Accepted at ICNWC'26 - SRM Institute of Science and Technology.

Education

Amity School of Engineering & Technology, Amity University

Jaipur, Rajasthan

Bachelor of Technology Computer Science & Engineering

Sep 2022 - Jun 2026

- **Minor Degree in Bioinformatics**

G.D. Goenka Public School

Gurugram, Haryana

Physics, Chemistry, Maths, English, Computer Science, Painting

Class of 2021

- **Robotics Club Lead**

Certifications

Salesforce

Salesforce Certified AI Associate

Credential ID: 5704656

Issued: Jan 2025

Skills

AI & Robotics

LangChain, TensorFlow, Ollama, NumPy, Pandas, ROS2, Rviz2, Nav2, SLAM, Gazebo

Languages & Tools

Python, C/C++, TypeScript, Docker, MongoDB, Redis, Git/GitHub