Mithil Mistry

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Education

Charotar University of Science and Technology — Anand, India
B.Tech. Computer Science and Engineering; CGPA: 7.45/10.0 — *Sept. 2022 – May 2026*

Experience

Hidden Brains — May 2024 – June 2024
Part time - Application Development Intern — *Ahmedabad, India*
- Implemented features in "Clean Rides" app, optimizing user interactions by 20%.
- Enhanced development skills in Dart, Flutter, and Firebase.

Charusat Space Research Center — May 2024 – June 2024
Research Intern — *Anand, India*
- Contributed to a Conference paper :Spectral Analysis of Lime Leaves: Advancing Lyme Disease Detection Using Machine Learning and Spectrometry

Hidden Brains — May 2025 – June 2025
Part time - Machine Learning Intern — *Ahmedabad, India*
- Contributed to a Conference paper :Spectral Analysis of Lime Leaves: Advancing Lyme Disease Detection Using Machine Learning and Spectrometry

Publications

[J.1] Hardik Jayswal, Hetvi Desai, Hasti Vakani, Mithil Mistry, Nilesh Dubey et al. (2025). **Plant Disease Classification with Spectral Signature Taxonomy and Analysis Software (SSTAS)**.
Software Impacts, Accepted for publication (Web of Science - ESCI, Impact Factor: 1.3, Q3).

[J.2] Hardik Jayswal, Hetvi Desai, Hasti Vakani, Mithil Mistry, Nilesh Dubey (2025). **Symptom-Based Early Detection and Classification of Plant Diseases Using AI-Driven CNN+KNN Fusion Software (ACKFS)**.
Software Impacts, Elsevier. (Impact Factor: 1.5, Q2).

[C.1] Abhay Nath, Hasti Vakani, Hardik Jayswal, Nilesh Dubeyet al. (2024). **Spectral Analysis of Lime Leaves: Advancing Lyme Disease Detection Using Machine Learning and Spectrometry**. *In 3th World Conference on Information Systems for Business Management.* Springer, September 12-13,2024, Bangkok,Thailand.

[C.2] Hasti vakani, Mithil Mistry, Nitika Sharma, Hardik Jayswal et al. (2025). **Obesity Level Prediction Using Machine Learning**.*In 10th International Congress on Information and Communication Technology (ICICT 2025)*. Springer, February 18-21, 2025, London.

[C.3] Mithil Mistry, Hasti Vakani, Mann Patel, Hardik Jayswal et al. (2025). **Automated Detection of Potholes Using Deep Learning**. *In 10th International Congress on Information and Communication Technology (ICICT 2025)*. Springer, February 18-21, 2025, London.

[C.4] Nitika Sharma, Hasti Vakani, Mithil Mistry, Hardik Jayswal et al. (2025). **Predictive Analysis of Apple Stock Trends Using LSTM Models**. Submitted to *5th International Conference on Computer Technology, Management and its Applications (CTMA 2025)*. Springer, February 28-March 1, 2025, Pune, India.

[C.5] Mann Patel, Mithil Mistry, Hasti Vakani, Sachin Patel et al. (2025). **Anomaly Detection in Industrial Machines Using Echo State Networks**. *Accepted In International Conference on ICT for Sustainable Development*, Springer, July 16–19, 2025, Goa, India.

Projects

Scorewise - GRE Essay Practice Tool | *React.js, Node.js, NLP*
∗ Built a full-stack web app for GRE AWA practice with random topic generator, live timer, typing metrics, and AI feedback.

Depth and Dimension Company Website | *HTML, CSS, JavaScript, Git*
∗ Developed and deployed a business website showcasing the firm's portfolio, branding, and services in a collaborative setting.

DonateNow - Blood Donation App | *MongoDB, React.js, Node.js*
∗ Built a full-stack app with JWT authentication, SMS notifications, and user/admin dashboards.

The Wall - Twitter Clone | *Flutter, Dart, Firebase*

* Developed tweet posting, real-time updates, and authentication with a responsive UI.

Teen Patti Game | *C#, Unity*
* Designed a 2-player card game using RNG logic; expanding to online multiplayer features.

Cube Runner | *C#, Unity Engine*
* Built a 3D immersive game for a group project; focused on team coordination and game mechanics.

Wisk Wizard | *Flask, HTML/CSS, JavaScript*
* Created a web app that suggests recipes based on available ingredients to reduce food waste.

WiFi-Based Attendance Tracker | *Flutter, Firebase, Geolocation APIs*
* Developed a fraud-proof attendance system using GPS and Wi-Fi BSSID validation. Submitted for SIH.

Secret Language of Birds | *Raspberry Pi, Python, gpiozero*
* Built a Raspberry Pi-powered interactive bird call exhibit for sanctuaries using LED and sound syncing.

Smart Home Automation | *IoT, Relays, Android App*
* Implemented lighting, security, and motion sensors with mobile and manual control systems at home.

Emergency Braking Car (ADAS Prototype) | *Arduino, Ultrasonic Sensors*
* Created a small-scale automated vehicle prototype with obstacle detection and emergency braking.

PCB Projects and Simulations | *Breadboards, Sensors, Microcontrollers*
* Implemented multiple circuits including fiber optic mic, burglar alarm, and water level monitor using PCBs.

Technical Skills

Languages: C/C++, C#, HTML/CSS, Java, JavaScript/TypeScript, Python, SQL

Frameworks & Libraries: React.js, Node.js, Express.js, Flutter, Unity Engine

Developer Tools: VS Code, Android Studio, Firebase, MongoDB

Other Skills: Data Structures and Algorithms, OOP, IoT, Game Development, LaTeX

Extra Curriculars

- **Arthyantra (CHARUSAT Economic Club)**: Founder and Joint President – Led CHARUSAT's Economics Club, organizing financial literacy events.
- **The Rotaract Club of CHARUSAT**: Treasurer – Managed budgeting and coordinated community service initiatives.
- **Sports**: Reached quarter-finals in a state-level Lawn Tennis tournament and volunteered in organizing junior level competitions.
- **Musician**: Achieved distinction in nine Classical Music exams and is proficient in playing multiple instruments.