

# Mithil Mistry

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## EDUCATION

**Charotar University of Science and Technology**  
*B.Tech. Computer Science and Engineering; CGPA: 7.1/10.0*

Anand, India  
Sept. 2022 – May 2026

## EXPERIENCE

**Hidden Brains**  
*Application Development Intern*

May 2024 – June 2024  
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**  
*Intern*

May 2024 – June 2024  
Anand, India

- Contributed to research projects and supported technical operations.

## RESEARCH PAPERS

### Conference Papers

**Anomaly Detection in Industrial Machines Using Echo State Networks:** Developed a model for real-time industrial anomaly detection, improving accuracy with lower computational cost.

**Obesity Level Prediction Using Machine Learning:** Created a stacking model with 96.69% accuracy, identifying key predictors like BMI for health insights.

**Lime Disease Classification Using Machine Learning and Spectrometry:** Leveraged LSTM, RNN, and BiLSTM combined with classifiers to reach over 99% precision, improving disease diagnostics in agriculture.

**Automated Detection of Potholes and Speed Bumps Using Deep Learning:** Achieved 91.91% accuracy in road anomaly detection with EfficientNetB0, enhancing safety in diverse conditions.

**Predictive Analysis of Apple Stock Market Trends: A Data-Driven Approach:** Achieved 96.50% accuracy with LSTM, supporting financial forecasting.

### Journal Papers

**Plant Diseases Classification with Spectral Signature Taxonomy and Analysis Software**

**Symptom-Based Early Detection and Classification of Plant Diseases Using AI-Driven CNN+KNN Fusion Software (ACKFS)**

## PROJECTS

**Scorewise - GRE Essay Practice Tool** | *React.js, Node.js, MongoDB*

- 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

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**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

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- **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.