

MITHIL MISTRY

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EDUCATION

Charotar University of Science and Technology

B.Tech. Computer Science and Engineering; CGPA: 7.88/10.0

Anand, India

Sept. 2022 – May 2026

EXPERIENCE

UniMisk ERP Solutions

Managing Partner

Ahmedabad, India

Present

- Lead a B2B ERP and business-automation company delivering Tally Prime implementation, customisation, cloud deployment, integrations, and operational digitisation solutions for businesses.
- Drive client requirement discovery, solution design, project delivery, and tailored ERP workflows across accounting, inventory, payroll, reporting, and business-process automation.
- Lead development of B2B SaaS and AI-enabled business tools, including PesoWise, ServiceWise, TaskFlow, and Ops Central, with emphasis on scalable and secure workflows.

Byteosaurus

Co-Founder

Present

- Co-founded a B2C technology venture focused on building accessible, consumer-facing digital products and web applications.
- Lead product planning and end-to-end development of user-centric platforms spanning productivity, career preparation, learning, and interactive digital experiences.
- Build and manage consumer-product initiatives including ResuGo, Kidzopedia, Anathema, and MemeClash, prioritising simple user journeys and engaging user experiences.

Physical Research Laboratory

Project Trainee

Ahmedabad, Gujarat

Sept. 2025 – Dec. 2025

- Designed and deployed a website to gather real-time weather data across three monitoring stations.
- Implemented interactive visualizations for weather trends and integrated image vision and processing modules for enhanced data analysis.
- Collaborated with researchers to align digital solutions with atmospheric and environmental monitoring objectives.

Hidden Brains

Machine Learning and Application Development Intern

Ahmedabad, India

May 2024 – June 2025

- Developed and tuned machine-learning models using Python, NumPy, pandas, scikit-learn, and TensorFlow; built a geospatial landslide-detection model with 85% accuracy.
- Enhanced the “Clean Rides” Flutter application by improving authentication, booking workflows, and Firebase-based real-time backend connectivity.

Charusat Space Research Center

Research Intern

Anand, India

May 2024 – June 2024

- Conducted research on lime disease classification using machine learning and spectrometry.
- Developed hybrid models using LSTM/RNN/BiLSTM with SVM/KNN/XGBoost, achieving 98.6% precision.

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 Dubey et al. (2024). **Spectral Analysis of Lime Leaves: Advancing Lyme Disease Detection Using Machine Learning and Spectrometry**. *3rd 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**. *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**. *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

Software, SaaS & Game Development

Vibrant Gujarat 2025–2026 – Gujarat Forest Department Digital Initiatives | *Web Development, Interactive Kiosks, Analytics*

- Supported the Gujarat Forest Department across two Vibrant Gujarat conferences by developing visitor-facing digital products, websites, and interactive stall experiences.
- Built the **Oath Kiosk**, used by 1,200+ visitors, and the **Rashi Tree** interactive experience, engaging 1,500+ visitors during the events.
- Developed a footfall-counter solution for visitor analytics and provided on-site technical support for the complete Forest Department stall.

PesoWise – Expense & Petty-Cash Management SaaS 🌀 | *React.js, TypeScript, Supabase, PostgreSQL, Gemini API*

- Developed a role-based expense-management platform for employee submissions, approvals, reimbursements, money assignments, and report drill-downs, currently having 500+ users
- Designed Supabase/PostgreSQL schemas, Row Level Security policies, migrations, and secure multi-user data workflows.
- Integrated Gemini-powered natural-language expense parsing through Supabase Edge Functions with structured validation and fallback handling.

ServiceWise – Fleet & Transport Operations SaaS 🌀 | *React.js, Supabase, PostgreSQL, SaaS Workflows*

- Designed and developed core workflows for vehicle, driver, project, booking, and service-management operations.
- Implemented role-aware fleet status, vehicle allocation, payment, compliance, service-history, and operational-dashboard requirements.

Anathema – Multiplayer Taboo-Style Word Game 🌀 | *Web Game Development, Real-Time Multiplayer*

- Developed a social word-guessing game centred on secret words, restricted clue words, team rounds, and competitive scoring.
- Designed Pass & Play and live two-device gameplay flows with a responsive party-game interface.

MemeClash – Multiplayer Party Game 🌀 | *React.js, Web Game UI, Multiplayer UX*

- Built a browser-based multiplayer party-game experience with Quick Play, Login, Register, lobby, and interactive gameplay flows.
- Designed host-only room controls, bot-player support concepts, and a cyberpunk-comic visual system with responsive motion-rich interfaces.

Self-Hosted SaaS Infrastructure & Supabase Security | *Docker, Coolify, Supabase, Ubuntu, Nginx*

- Configured self-hosted infrastructure for React and Supabase applications using Docker, Coolify, protected service routing, and domain/HTTPS planning.
- Hardened backend access through Supabase Auth, Row Level Security, storage controls, firewall planning, and production incident-recovery workflows.

Kidzopedia – Interactive Learning Platform for Children 🌀 | *Web Development, Educational Technology*

- Developed a child-friendly digital learning platform that presents educational topics through structured, engaging, and easy-to-navigate content.
- Focused on an intuitive interface and age-appropriate information delivery to make learning more accessible and interactive for young users.

ResuGo – Resume Building & Career Preparation Platform 🌀 | *Web Development, Resume Generation*

- Built a resume-building platform that helps users organize professional information into structured, recruiter-friendly resume sections and eventually into portfolio websites.
- Designed workflows for entering, editing, and managing education, skills, experience, projects, and other career-profile details.

TaskFlow – B2B Task Management Software 🌀 | *Web Development, Productivity Software*

- Developed a B2B task-management application for creating, organising, prioritising, and tracking work across pending, active, and completed stages.
- Designed streamlined workflows with task status, deadlines, and structured visibility to improve day-to-day operational planning.

Headless Shopify Storefront Integration | *React.js, TypeScript, Shopify Storefront API, Supabase*

- Built a custom React storefront connected to Shopify for product, collection, cart, wishlist, and checkout workflows.
- Implemented Shopify product mapping, route-based collection resolution, cart line-item updates, and redirect to Shopify-hosted checkout.

Ops Central – Inventory & Warehouse Tracking Platform 🌀 | *System Design, Barcode Workflows, Multi-Organisation Architecture*

- Architected a scalable inventory workflow covering stock check-in/check-out, product-image verification, and barcode generation and scanning.
- Designed a warehouse-to-bin location hierarchy and organisation-level separation for controlled inventory visibility and auditing.

Amit Fibre Decor (AFD) Website 🌀 | *React.js, Framer Motion, Leaflet.js, CSS Grid*

- Built a dynamic and visually immersive website for a sculpture and decor company to showcase large-scale art installations and project galleries.
- Implemented interactive location maps for the company workshop and exhibitions using Leaflet.js with smooth motion transitions.
- Focused on UI/UX design with responsive layouts, smooth animations, and an elegant violet–white colour palette to match brand identity.

ScoreWise – GRE Essay Practice Tool 🌀 | *React.js, Node.js, NLP*

- Built a full-stack web app for GRE AWA practice with random topic generation, a 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.

3D card Game | *C#, Unity*

- Designed a two-player card game using RNG logic and planned expansion toward online multiplayer features.

Cube Runner | *C#, Unity Engine*

- Built a 3D immersive game for a group project, focusing on game mechanics and team coordination.

WiFi-Based Attendance Tracker | *Flutter, Firebase, Geolocation APIs*

- Developed a fraud-resistant attendance system using GPS and Wi-Fi BSSID validation; submitted for Smart India Hackathon.

IoT, Embedded Systems & Hardware

Nal Sarovar Restoration Project | *Arduino, Relays, NeoPixels, Seven-Segment Displays*

- Developed an interactive embedded exhibit for the Nal Sarovar restoration project, combining push-button inputs, 8-channel relay control for 220V bulbs, addressable LEDs, and a five-digit display.
- Debugged relay logic, shared-neutral wiring, button-to-output mapping, and physical control behaviour to ensure reliable public interaction and display operation.

Secret Language of Birds | *Raspberry Pi, Python, gpiozero*

- Built a Raspberry Pi-powered interactive bird-call exhibit using LED and sound synchronisation to create an engaging learning experience about bird species and their calls.
- Designed the display for installation at Nal Sarovar Bird Sanctuary, Thol Lake Bird Sanctuary, and Kevdi Bird Sanctuary to support visitor awareness and environmental education.

Smart Home Automation | *IoT, Relays, Android App*

- Implemented lighting, security, and motion-sensor controls with mobile and manual operation 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 circuits including a fibre-optic microphone, burglar alarm, and water-level monitor using PCBs.

TECHNICAL SKILLS

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

Web & App Development: React.js, Node.js, Express.js, Flutter, Tailwind CSS, REST APIs, Shopify Storefront API

Databases & Backend: PostgreSQL, Supabase, MongoDB, Firebase, Supabase Edge Functions, Row Level Security (RLS)

AI/ML & Computer Vision: Gemini API, TensorFlow, scikit-learn, NumPy, pandas, OpenCV, FaceNet, NLP

DevOps & Tools: Docker, Coolify, Ubuntu/Linux, Nginx, Git/GitHub, VS Code, Android Studio

IoT & Embedded Systems: Arduino, Raspberry Pi, gpiozero, Relay Modules, NeoPixels, Ultrasonic Sensors, GPIO

Other: Unity Engine, Vuforia, Game Development, Data Structures & Algorithms, OOP, ERP Workflows, LaTeX

EXTRA CURRICULARS

- **Arthyantra (CHARUSAT Economic Club):** Founder and Joint President – led CHARUSAT’s Economics Club and organised 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 organising junior-level competitions.
- **Musician:** Achieved distinction in nine Classical Music exams and is proficient in playing multiple instruments.