

RHYTHM MEHTA

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EDUCATION

New L.J. Institute of Engineering and Technology (GTU)	Ahmedabad, India
Bachelor of Engineering – Computer Engineering	Aug 2024 – May 2028 (Expected)

TECHNICAL SKILLS

Languages	Python, JavaScript, TypeScript, C++, Java, SQL
AI / ML	Machine Learning, Deep Learning, NLP, Computer Vision, Pandas, NumPy, Matplotlib, Seaborn, scikit-learn, TensorFlow, PyTorch, XGBoost, BERT, LSTM
Data	Data Analysis, Data Visualization, Feature Engineering, EDA, Plotly, Plotly Dash
Full-Stack Web	React.js, Next.js, Node.js, Express.js, Flask, REST APIs, Tailwind CSS, shadcn/ui
Databases	MongoDB, PostgreSQL, Firebase, Supabase, Redis
Cloud & DevOps	Microsoft Azure, Git, GitHub, Docker, Postman, JWT, Web3.js

EXPERIENCE

Full-Stack Developer Intern (MERN Stack) <i>Healtether Healthcare</i>	Dec 2025 – Jun 2026
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- Developed and deployed production-grade healthcare web applications using the MERN stack (MongoDB, Express.js, React.js, Node.js), reducing feature delivery time by streamlining API-to-UI workflows
- Built and integrated RESTful APIs for patient data management, appointment scheduling, and health analytics modules; performed data wrangling with **Python and Pandas** to generate weekly health trend reports
- Implemented **machine learning**-based symptom pattern analysis using **scikit-learn** and **NumPy** to surface early health risk flags, integrated directly into the provider dashboard
- Designed responsive, accessible UI components with React and Tailwind CSS; applied **data visualization** techniques using **Matplotlib** and **Plotly** to render patient analytics charts
- Optimized MongoDB query performance and reduced API response latency for production-grade, HIPAA-conscious healthcare data systems; collaborated with cross-functional teams via Agile sprints

PROJECTS

1. DivyaFlow – AI-Powered Temple Crowd Management System	GitHub
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- Cleared college round of Smart India Hackathon (SIH) 2025 – selected as the college representative solution for national-level submission
- Built an AI crowd management platform for India's temples with virtual queuing, real-time occupancy analytics powered by **data analysis** pipelines, and multi-role dashboards (admin, staff, pilgrim)
- Applied **machine learning** forecasting models to predict peak crowd windows; integrated server-side rendering with Next.js and role-based access control via NextAuth and Supabase
- Tech:** Next.js, TypeScript, Supabase, NextAuth, Zustand, Recharts, shadcn/ui, Python, Pandas

2. Jagrut AI – Multilingual Fraud Detection System	GitHub
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- Engineered a multilingual fraud detection platform supporting text, audio, and URL analysis using **NLP** and **deep learning** to protect users from scams and phishing attacks in Indian languages
- Fine-tuned a **BERT**-based **NLP** classification model and integrated **OpenAI Whisper** for multilingual audio transcription, achieving **90%+ detection accuracy** on test data
- Built a fraud analytics dashboard using **Pandas**, **NumPy**, and **Plotly** with interactive charts for trend monitoring and model performance reporting

- **Tech:** Python, Pandas, NumPy, Streamlit, OpenAI Whisper, PyTorch, BERT, scikit-learn, MongoDB, Plotly

3. CodeCrushers – Responsible Gaming & Blockchain Verification Platform

[GitHub](#)

- **Top 20 Finalist** out of 500+ teams at **i-hack 2025** by E-Cell, IIT Bombay [[Certificate](#)]
- Built an **XGBoost**-based user behavior **machine learning** model for early addiction intervention and real-time risk scoring; processed behavioral logs with **Pandas** and **feature engineering** pipelines
- Implemented blockchain-backed identity verification via Web3.js smart contracts, JWT authentication, configurable spending limits, and mental health alert triggers
- **Tech:** Python, Pandas, scikit-learn, XGBoost, Flask, Node.js, Web3.js, Blockchain, JWT

4. GovHackathon – Smart City Traffic & Disease Surveillance System

[GitHub](#)

- Developed for **SSIP Gujarat Hackathon** by the **Government of Gujarat** – a dual-purpose system for real-time traffic congestion prediction and disease outbreak surveillance for smart city management
- Built **LSTM** time-series **deep learning** models for short-horizon traffic forecasting using **TensorFlow**; performed **EDA** and feature extraction with **Pandas**, **NumPy**, and **Matplotlib**
- Integrated Redis caching for low-latency live monitoring dashboards built with **Plotly Dash** and **data visualization** best practices
- **Tech:** Python, Pandas, NumPy, TensorFlow, LSTM, scikit-learn, Flask, MongoDB, Plotly Dash, Redis

5. SkillXchange – Peer-to-Peer Skill Exchange Platform

[GitHub](#)

- Built for **Odoo Hackathon 2025** – a community-driven platform enabling users to list skills, swap sessions, and build learning communities with booking, reviews, and real-time chat
- Designed a fully responsive UI with React, Tailwind CSS, and Vite; integrated Firebase for real-time data synchronization and user authentication
- **Tech:** React, TypeScript, Firebase, Tailwind CSS, Vite, shadcn/ui

ACHIEVEMENTS & CERTIFICATIONS

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- **Smart India Hackathon (SIH) 2025** – Cleared college-level round with *DivyaFlow*, an AI crowd management solution for India's temples; selected as the college representative project for national submission
 - **Top 20 Finalist – i-hack 2025, E-Cell IIT Bombay** – Ranked in the top 20 out of 500+ teams nationwide with the CodeCrushers responsible gaming and blockchain verification platform [[Certificate](#)]
 - **SSIP Gujarat Hackathon** – Selected to build smart city ML solution for the Government of Gujarat's innovation challenge
 - **ISRO – AI & Machine Learning Certification** – Geodata analysis, remote sensing, and space technology AI applications (Sep 2024) [[Certificate](#)]
 - **Microsoft Azure AI Fundamentals (AI-900)** – Cloud-based machine learning and AI solution development on Azure (Aug 2024) [[Certificate](#)]
 - **Competitive Programming:** Active on LeetCode, CodeChef & Codeforces (*AlgoRhythmX*) with consistent participation in rated contests; strong foundation in DSA and algorithmic problem-solving