

# Mitul Patil

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## Professional Summary

Full Stack Developer proficient in the **MERN** stack and **Firebase**. Experienced in building scalable web and mobile applications, with a focus on real-time systems, **AI** integration, and performance optimization.

## Education

### B.Tech in Computer Science & Engineering

June 2022 – May 2026

Parul University, Vadodara, Gujarat

CGPA: 8.36

## Technical Skills

**Programming Languages:** Java, JavaScript (ES6+), Python

**Frontend:** React.js, React Native, HTML5, CSS3, Tailwind CSS, Redux, GSAP

**Backend:** Node.js, Express.js, REST APIs, Socket.IO, Firebase (Auth, Firestore, Cloud Functions)

**Databases:** MongoDB, Firebase Firestore

**Tools:** Git, GitHub, Postman, Axios, Expo, Razorpay

**Concepts:** Full Stack Development, Authentication & Authorization, Real-Time Systems, API Integration

## Projects

### Mr. Dhobi – On-Demand Laundry Service Mobile Application (Group Project)

Live | GitHub

*React Native (Expo), React.js, TypeScript, Firebase (Auth, Firestore, Cloud Functions), Razorpay*

- Worked as a **Full Stack Developer** in a group project, building the **mobile app frontend** and implementing **OTP-based authentication and real-time notifications** ( 300 ms updates)
- Designed and developed a **role-based Admin Panel** with **10+ operational modules** including orders (online/offline), agents, users, services, transactions, cash collections, and pincode serviceability
- Built the **Mr. Dhobi business information website** using React, achieving a **98 Lighthouse performance score**

### YouTube Notes & Quiz Generator (AI-Powered)

GitHub

*Streamlit, Python, Google Gemini (LiteLLM), youtube-transcript-api, ReportLab*

- AI-powered app converting **30–60 min YouTube videos** into notes and quizzes in **10 sec (avg)**
- Implemented **JSON-based caching**, reducing repeated LLM calls by **60%**
- Generated **50 MCQs per video** with analytics and **PDF export**

### Real-Time Chat & Video Call Application

Live | GitHub

*Node.js, Express.js, Socket.IO, WebRTC*

- Built real-time chat and **1-to-1 video calling** web app
- Achieved **sub-200 ms message latency** using WebRTC + Socket.IO
- Supported **10+ concurrent users** with reconnect handling

## Certifications

Full Stack Web Developer – Udemy (2025)

## Internship Experience

### Python Programming Intern – YBI Foundation

Sept 2024 – Oct 2024

- Performed Exploratory Data Analysis (EDA) using **Pandas** and **NumPy** to clean raw data and derive key statistical insights.
- Engineered a content-based Movie Recommendation System using **Scikit-learn** and cosine similarity algorithms.
- Developed a Mileage Prediction regression model achieving **[80%]** accuracy, utilizing **Matplotlib** for visualization.

## Achievements

### Runner-up – Azadi Ka Amrit Mahotsav Hackathon (2022)

Built an IoT-based Smart Dustbin using Arduino Nano with real-time garbage monitoring.