

## DHRUVI BHAVESH MEHTA

BTech Computer Engineering

+91 9426702983 || [dhruvimehta1702@gmail.com](mailto:dhruvimehta1702@gmail.com) || [www.linkedin.com/in/dhruvimehta](https://www.linkedin.com/in/dhruvimehta)

### SUMMARY

Driven and meticulous computer engineering student with a strong foundation in full-stack web development, software development, and artificial intelligence. Proficient in programming languages such as C++, Python, Java and SQL, with hands-on experience in NodeJS, data structures, and AI-driven solutions. Experienced in building web and mobile applications, including Yogyatra.org and anomaly detection in video surveillance using OneClassSVM and OpenCV as the main concepts. Passionate about full stack web development, cyber security and machine learning with projects utilizing AI. Adept at bridging the gap between development and real-world applications. Seeking an internship opportunity to apply AI and software expertise in innovative projects.

### EDUCATIONAL QUALIFICATIONS

Mukesh Patel School of Teechnology, Management and Engineering, Mumbai  
CGPA 3.77/4

August 2022-Current

Navrachana Education Society, Vadodara, Gujarat  
11<sup>th</sup> - 12<sup>th</sup> CBSE – Percentage 91.6

April 2020-March 2022

Navrachana Education Society, Vadodara, Gujarat  
10<sup>th</sup> CBSE – Percentage 89.6

April 2019-March 2020

### SKILLS

- **Coding Languages:** C++, Python, Java, SQL, R Language
- **Full-Stack Web Development:** Frontend: HTML, CSS, JavaScript; Backend: Node.js, SQL; Development Tools: Git, Firebase
- **Artificial Intelligence and Data Science:** Python, R Language, Machine Learning Algorithms (e.g., One-Class SVM), Data Analysis
- **Mobile App Development:** Android Studio, Java (for Android apps)
- **Networking & Security:** Cisco Packet Tracer, Network Configuration & Security
- **Design & UI/UX:** Graphic Design (Figma, Canva, Adobe XD), Tinkercad, AutoCAD
- **Microservices & Architecture:** Microservices Architecture, API Development, Eureka Server, Docker, Cloud Deployment

### EXPERIENCE

Full Stack Development | Yogyatra | <https://yogyatra.org>

November 2024-Present

- Designed and developed Yogyatra, a full-stack web platform for booking yoga retreats, wellness programs, and online course, built using Node.js, JavaScript, and Firebase.
- Created a user-friendly and visually engaging interface, optimizing UI/UX with dynamic image interactions and seamless navigation.
- Implemented a secure backend payment gateway to facilitate real-time retreat bookings and transactions.
- Developed a robust backend system for user authentication, retreat management, and automated notifications using Node.js and Firebase.
- Ensured **mobile responsiveness** and cross-device compatibility to provide a seamless experience across different platforms.

### PROJECTS

Secure File Sharing Website <https://seureshare.in/>

Developed a lightweight, frontend-only web application using HTML, CSS, and JavaScript for instant file and text sharing via custom links. Integrated Firebase Authentication for optional secure login, enabling end-to-end encryption of files and messages for secure messaging and file sharing. Implemented auto-download for files, dynamic rendering for text, and custom expiration features - all without backend storage. Designed with a modern UI/UX and a focus on privacy, simplicity, and performance.

Anomaly Detection in Video Surveillance – Artificial Intelligence and Image Processing [Anomaly Detection](#)

Developed an AI-powered video anomaly detection system to automate surveillance monitoring, enhancing real-time threat detection using motion capture, background subtraction, and contour detection. Integrated one-class SVMs for improved intrusion detection and leveraged smart camera systems with hardware acceleration for efficient processing and OpenCV for image processing, object tracking, and feature extraction. Focused on robust algorithms, optimized datasets, and high-precision anomaly detection for safer, more responsive surveillance.

Mental Health – Android Studios App | [Mental Health App](#)

The Mental Health and Well-Being App helps users manage stress, track moods, and set wellness goals. It features mood tracking, a color-coded calendar, personalized self-care suggestions, and proactive risk assessments for early intervention. Users can also connect with mental health professionals. Built with Android Studio, it utilizes Firebase for secure data storage and authentication, along with an interactive calendar for mood visualization, all within a sleek Material Design UI.

Cisco Packet Tracer – Home Security System

Designed and implemented a smart home security system using Cisco Packet Tracer, integrating network devices, IoT sensors, and alarms for a simulated security setup. Configured routers, switches, firewalls, and access controls for secure communication, enabling motion detection, surveillance, and automated alerts with real-time monitoring capabilities.

Smart India Hackathon | [Connecting Farmers to consumers app](#)

Developed a user interface app that connects farmers directly with consumers, eliminating the need for middlemen. It offers user verification at key points for added security. The app includes features like a chatbot, real-time messaging between farmers and customers, blogs from the government to farmers, and a notification section for customers to track updates and orders seamlessly. Also implemented user authentication.

Small Projects using C++, Python, Java

Developed small-scale projects in C++, Python, and Java, showcasing diverse programming proficiency. Implemented data structures, algorithms, and object-oriented concepts to create functional applications. Demonstrated problem-solving skills, code efficiency, and algorithmic thinking. Showcased adaptability and versatility in utilizing multiple programming languages for varied project requirements.

