

EDUCATION

| Degree/Certificate | Institute/Board | CGPA/Percentile | Year         |
|--------------------|-----------------|-----------------|--------------|
| B.Tech in AI       | NIT Surat       | 9.54            | 2023–Present |
| Higher Secondary   | GSHSEB          | 99.70           | 2022–2023    |
| Secondary          | GSHSEB          | 98.90           | 2020–2021    |

EXPERIENCE

- Great Notes

Oct 2024 - Jan 2025

Full Stack Developer

Remote

Designed, developed, and deployed a dynamic website from the ground up, ensuring robust functionality and scalability.

Collaborated cross-functionally with designers and developers, streamlining the development lifecycle for optimal efficiency.

Successfully launched a fully operational, commercially viable platform, demonstrating strong full-stack expertise.
- PhysicsWallah

Apr 2024 - Jun 2024

Subject Matter Expert (Physics)

Remote

Provided in-depth subject matter expertise, curating high-quality physics content for enhanced student learning.

Developed comprehensive solutions and academic resources, ensuring accuracy and conceptual clarity.

PROJECTS

- Capify - Personal Finance Assistant

Jul 2024 - Present

Web Application

[Website](#)

Developed a comprehensive **finance management platform** with tools for **budget tracking, expense management, and financial insights**.

Implemented **Split-Smart**, a feature simplifying **bill splitting** and tracking shared expenses seamlessly.

Designed various **recommendation-based calculators** to assist users in financial planning.

Integrated a **blogs & resources section**, providing users with expert financial guidance, including articles, podcasts, and talks from industry leaders.

Built an **AI-driven stock market price prediction model** to help users make informed investment decisions.

Developed a **personalized financial recommendation engine**, providing **five key suggestions** based on user data.

Implemented an **invoice summarizer & data analyzer**, automatically extracting insights from uploaded invoices.
- Gesture Controlled Suite

Mar 2024 - Jun 2024

Computer Vision-Based Application

[GitHub](#)

Developed an **AI-powered gesture recognition system** enabling intuitive control over digital interfaces.

Enhanced user experience by providing a **hands-free, gesture-driven interface** for various applications.

Implemented **gesture-based functionalities**, including **mouse and keyboard control, PPT navigation, air draw, 3D object manipulation, Pomodoro timer, screenshots, and screen zoom**.

Utilized **OpenCV & MediaPipe** for efficient real-time hand tracking and gesture classification.
- WanderBot

Feb. 2025 - Present

GenAI-Powered Travel Assistant

[Website](#) | [GitHub](#)

Built an **AI-powered travel assistant** using **Gemini Pro** to generate **personalized travel itineraries**.

Integrated **Eventbrite API** to fetch suggested travel destinations based on user preferences.

Used **AviationStack API** to provide real-time **flight options** from the user's origin to their destination.

Implemented a **train journey search** feature, particularly useful for travel within India.

Developed a **hotel recommendation system**, suggesting accommodations near the user's destination.

- Added a **fun travel facts generator** to enhance user engagement and keep the wanderlust alive.
- Designed a **beautiful and intuitive UI** for seamless user experience.

- **Agro We - Smart Agricultural Platform**

May. 2024 - Present

*Web-Based Decision Support System*

[Website](#) | [GitHub](#)

- Designed a **web app for precision agriculture**, providing farmers with **real-time insights** for better decision-making.
- Developed a **user-friendly dashboard** with dynamic visualizations and a **weather forecasting system** for improved farm planning.
- Implemented a **recommendation engine** tailored to **soil type, crop selection, rainfall prediction, and farming season**.
- Empowered farmers by **simplifying complex agricultural data** into actionable insights to boost productivity and sustainability.

- **AI-Driven Sustainability Platform**

Aug. 2024 - Present

*MERN Stack + AI for Environmental Impact*

[Website](#) | [GitHub](#)

- Developed an **AI-powered platform** to **reduce paper cup waste** and promote sustainability.
- Created a **personalized tracking system** to monitor **waste reduction & chemical exposure savings**.
- Designed a **dynamic impact dashboard** with **real-time analytics** and leaderboards.
- Integrated **GPT-2 & NLP for AI-powered eco recommendations** to guide users toward sustainable choices.
- Built an **interactive insights hub** to provide users with the latest sustainability blogs, news, and eco-friendly practices.

- **Smart Healthcare Platform**

Sep. 2024 - Present

*AI-Powered Health Monitoring & Doctor Booking*

[Website](#) | [GitHub](#)

- Created a **real-time health recommendation dashboard**, updating **every 5 minutes** based on **Fitbit/smartwatch data**.
- Developed a **healthcare platform** offering **doctor bookings, health analytics, and community support**.
- Implemented **location-based doctor booking** for home visits.
- Built **health metric calculators** for real-time health tracking.
- Designed an **awareness page** providing monthly insights into **diseases, symptoms, risks, prevention, and treatment**.
- Integrated a **Medicine Recommendation System** offering **drug alternatives and proper dosages**.
- Built a **Medicine Usage Helper**, providing **detailed descriptions of medicine usage, side effects, and interactions**.

- **Task Manager Application**

Feb. 2025 - Present

*React Native-Based Task Management*

[GitHub](#)

- Developed a **React Native task manager** enabling users to **create, update, delete, and organize tasks**.
- Implemented **task dependency management**, allowing users to set and visualize dependencies between tasks.
- Designed an **overdue task lookup system** to highlight and manage missed deadlines effectively.
- Integrated a **task scheduling feature** for users to plan and prioritize upcoming tasks efficiently.
- Built an **interactive task visualization** to provide a clear hierarchical view of task relationships.

## SKILLS

- **Programming Languages:** Python, C++, C
- **Artificial Intelligence:** Machine Learning, Deep Learning, Generative AI, RAG LLM, AI, Computer Vision
- **Web Development:** React.js, Next.js, TypeScript, Javascript, Tailwind CSS, Bootstrap, Webflow, Wordpress
- **Databases & Tools:** MongoDB, SQL, Qdrant, GitHub, Web Hosting
- **Other Skills:** Competitive Programming, Data Structures and Algorithms, Prompt Engineering, Drone Making, Entrepreneurship

RESEARCH WORK

- **Robust Audio Forgery Detection using Deep Learning** 2024 - Present  
*Digital Security and AI Research*
  - Proposed a **deep-learning pipeline** for **detecting audio forgeries**, including **deepfake and copy-move forgery**.
  - Integrated **Mel-spectrogram, multi-scale feature fusion, and transformer-based attention mechanisms** for enhanced detection accuracy.
  - Addressed challenges posed by **overlapping noise and complex forgery patterns**, improving model generalization across diverse attack scenarios.
  - Experimented on the **ASVspoof 2017 dataset**, achieving **state-of-the-art performance** under both clean and noisy conditions.
  - Optimized the model for **real-time applications** by incorporating **preprocessing techniques** that enhance detection accuracy.

ACHIEVEMENTS

- **National Level GeeksForGeeks Hackathon (Avishkaar Season 2)** - Secured **3rd Runner-up** position.
- **Statistella - IIT BHU National Level Data Analytics Competition** - Secured **3rd Runner-up**.
- **8x Finalist Positions:** BITS GOA AI Hackathon, Convolve 3.0 (PAN IIT AI Hackathon), SAE India Business Plan Competition, Quarkz Hackathon, Gandhian Ideathon Competition.
- **Codex (ACM\_CEG)** - Achieved **4th and 1st place** in multiple editions.
- **Web Wonders (NEXUS, NIT Surat)** - **Runner-up** in the Website Design Competition.
- **Competitive Programming:** Achieved a peak rating of **1295 on Codeforces**, successfully solving **320+ problems on Codeforces and 320+ on LeetCode**.

POSITIONS OF RESPONSIBILITY

- **Junior Developer**, Google Developers Group on Campus Jan 2025 – Present
- **Co-Head**, Technical Committee, MindBend Nov. 2024 – Present
- **Senior Executive**, Research and Innovation Council jun 2024 – Present
- **Junior Technical Member**, Phoenix Aero Drone Department Mar 2024 – Present
- **Member**, Nexus: Departmental Cell of CSE and AI Sep 2023 – Present