

Jal Patel

Bharuch, Gujarat, India

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Education

Institute of Technology, Nirma University
B.Tech in Computer Engineering (Expected 2028)
– CGPA: 8.46/10

July 2024 – Present
Ahmedabad, India

Technical Skills

Languages: C, C++, Python

Core CS: Data Structures and Algorithms, Object-Oriented Programming

Web: HTML, CSS, JavaScript, React (Basics)

Tools: GitHub, SQL

Projects

Fasal Setu – AI-Based Crop Recommendation App (SIH 2025)

Java, MySQL, JDBC, AI/ML, APIs

Aug 2025 – Sept 2025
Group Project

- Built an AI-driven agricultural application that integrates soil data, weather conditions, crop history, and market demand to recommend sustainable and profitable crops.
- Developed features such as early pest and disease alerts, multilingual support, and offline-first access to address connectivity and literacy challenges faced by farmers.
- Implemented secure data management with role-based access control and database connectivity using JDBC and MySQL.

Pollution Awareness Website

HTML, CSS, JavaScript

Oct 2024 – Nov 2024
Educational Awareness Project

- Designed and developed a multi-page static website to educate users about environmental pollution, its types, causes, effects, and preventive measures.
- Implemented interactive UI features including image sliders, embedded videos, and responsive design for enhanced user engagement.
- Organized content using semantic HTML5 structure and styled pages with CSS to maintain readability and visual appeal.
- Integrated media assets including custom logo, infographics, and visual storytelling elements to effectively convey environmental awareness.

AgriSenseX – Smart Agriculture Management System

C++, OOP, File Handling, Polymorphism

Oct 2025
Major Project

- Developed a 15-module system integrating farmer, crop, soil, weather, water, equipment, and finance management.
- Implemented yield prediction, soil analysis, and resource optimization using OOP and polymorphism.
- Built alerts, feedback, and file-based reporting for real-time agricultural decision support.

Achievements

- Achieved peak Codeforces rating of 1260 with the rank 1757.
- Regular participant in Codeforces contests with steady performance improvement.
- Secured top ranks in college-level coding contests and hackathons.

Positions of Responsibility

Computer Society of India, ITNU
Executive Committee Member

Sep 2025 – Present

- Assisted in organizing coding contests and technical workshops.

IEEE, ITNU
Active Member

Aug 2025 – Present

- Participate in peer learning and technical activities.

Profiles

GitHub: github.com/jalmitul12

Codeforces: codeforces.com/profile/jalmitul12