

# Jhanvi patel

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## EDUCATION

**Bachelor of Technology in Computer Science and Engineering**  
Adani University, Gujarat

2024-2028

CGPA: 8.93 / 10

## TECHNICAL SKILLS

**Languages :** Java, JavaScript, Python, C

**Frontend :** HTML5, CSS3, React, tailwind CSS, react native

**Backend :** Node.js, Express, FastAPI

**Database :** MongoDB, PostgreSQL

**AI/ML :** Logistic Regression, TF-IDF, scikit-learn, NLP

**Tools :** Git, Postman, VS Code

**Core CS :** DSA, OOP

## PROJECTS

### Route Optimizer (Traffic-Aware Pathfinding System)

*React, Python, Dijkstra's Algorithm*

- Implemented a **custom graph-based routing engine** using Dijkstra's algorithm for shortest-path computation.
- Dynamically constructed weighted graphs from geospatial data instead of relying on black-box routing APIs.
- Incorporated traffic-aware edge weights and **multi-stop route optimization**.
- Built an interactive map UI using Leaflet.js for route and waypoint visualization.
- **Links :** [Live Demo](#) [Source Code](#)

### DSA Visualizer

*React, Vanilla JS, tailwind CSS*

- Interactive web app animating DSA internals and 25+ classical algorithm problems.
- Implemented visualizations for graphs, trees, sorting, arrays, DP and more.
- **Links :** [Live Demo](#) [Source Code](#)

### VisualBrief

*React, Tailwind, NLP*

- AI tool converting text/PDFs into flowcharts, ER diagrams, and concept maps.
- Built extractive summarization using NLP for structured outputs.
- **Links :** [Live Demo](#) [Source Code](#)

## EXPERIENCE

### DSA Workshop Mentor :

- Taught Sliding Window, Prefix Sum + HashMap, and Greedy techniques. Guided students through optimal patterns with live coding.

### Robotics trainer:

- Explained Bit masking for state representation and combinatorial task optimization with practical examples.

## ACHIEVEMENTS & POSITIONS

- [LeetCode](#) : 500+ problems solved (Top 6.93%, Rating 1816)
- [CodeForces](#) : Specialist (Max Rating: 1490)
- [HackerRank](#) : Java 5 star, Problem Solving silver badge; 1300+ Hackos
- DSA and CP team member : ASPDC (Adani Student Programming and Development Club).
- Trainer : AURC (Adani University Robotics Club).