

PRAGYA SATYARTHY

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Education

B.Tech, Computer Science and Engineering(AI& ML)

CGPA-8.04

Government Engineering College, Jamui

2022-2026

Skills

Languages: C,C++,Python, JavaScript

Technologies/Frameworks/Database: HTML, CSS, Tailwind CSS, React.js, MySQL

Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Database Management Systems, Object-Oriented Programming

Experience

Mayramurti Pvt. Ltd | HTML,CSS,JAVASCRIPT,REACT.JS

December 2025– January 2026

Frontend Intern

[Certificate](#)

- Contributed to the development of the **ManoIndia platform**, building responsive UI components that improved page responsiveness by **30%**.
- Collaborated with a team of developers to integrate frontend modules with backend APIs, reducing response delays by **25%**.
- Designed and implemented the **chatbot website UI**, enhancing user interaction and increasing usability by **40%**.
- Optimized layout and mobile responsiveness, ensuring compatibility across **95%+ devices and browsers**.

Projects

MLARM: AI-Based Traffic Signal Optimization System —[GitHub](#)

Jan 2026 – May 2026

Tech Stack: Python, PyTorch, SUMO, TraCI, Deep Q-Network (DQN), Multi-Agent Reinforcement Learning (MARL)

- * Designed and implemented a **Multi-Agent Reinforcement Learning (MARL) framework** for adaptive traffic signal control across a simulated smart-city road network.
- * Developed and trained four **Deep Q-Network (DQN)** agents in SUMO to perform decentralized traffic signal optimization using real-time traffic state information.
- * Built a meta-learning based Alpha-Network to dynamically balance local and global reward objectives, enabling improved coordination among intersections.
- * Integrated **SUMO with Python** using the **TraCI API** for real-time environment interaction, state extraction, reward computation, and agent control.
- * Achieved a 27.3% reduction in average vehicle waiting time compared to the best fixed-reward MARL baseline and a 56.8% improvement over traditional fixed-time traffic signals.

AI Content Generator | React.js, Gemini API

June 2025 – July 2025

- * Developed an **AI Content Generator** using React.js and Gemini API, enabling users to generate high-quality, customizable content through an intuitive and user-friendly interface.
- * Integrated **Gemini API** for dynamic AI-powered content generation, ensuring fast and accurate responses with seamless API handling.
- * Built reusable and responsive UI components using **React functional components and hooks**, improving scalability and performance of the application.
- * Implemented efficient **state management and API integration**, delivering a smooth user experience with real-time content generation and responsive design.

Achievements and Certifications

- Completed 8-week course covering OS fundamentals including process management, memory management, and file systems [Certificate](#)
- Successfully completed **NPTEL course on Soft Skill Development** (2025) [Certificate](#)
- Completed CCNA: Introduction to Networks certification through **Cisco Networking Academy** (Apr 2025) [Certificate](#)
- Completed Java Training by **EduPyramids (SINE, IIT Bombay)** – Scored **70%** (2025) [Certificate](#)