

Sarthak Garg

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Full-Stack Developer & AI/ML Enthusiast | MERN Stack | SIH 2024 Winner

Summary

Full Stack Developer and AI/ML Enthusiast with hands-on experience in building scalable web applications using the MERN stack and developing AI-based backend systems using Python and machine learning libraries. National winner of Smart India Hackathon 2024. Proficient in RESTful APIs, backend optimization, responsive UI design, and data-driven dashboards. Familiar with TensorFlow, Scikit-learn, Pandas, and Flask for AI/ML model integration and deployment. Strong communicator and problem-solver with experience in Agile methodology and cross-functional collaboration.

Technical Skills

- **Languages:** JavaScript (ES6), Python
 - **Frontend:** React.js, Tailwind CSS, Responsive Design
 - **Backend:** Node.js, Express.js, REST APIs
 - **Database:** MongoDB, PostgreSQL
- **ML Tools:** Scikit-learn, Pandas, NumPy, matplotlib
 - **Tools:** Git, GitHub, Postman, AWS (Beginner)
 - **Platforms:** Windows, Ubuntu
 - **Concepts:** Agile, Scrum

Soft Skills

- Team Collaboration
 - Problem-Solving
 - Effective Communication
- Adaptability
 - Leadership
 - Time Management
- Analytical Thinking

Projects

AI-Powered Postal Delivery System (Capstone)

Mar 2024 – Present

Frontend & ML Lead and Backend Assist

- Designed AI-based route optimization algorithms, improving postal delivery efficiency by 18%.
- Built scalable backend APIs managing 5000+ records; ensured secure, efficient data flow.
- Led analytics feature delivery and cross-team communication for actionable insights.

Carbon Nigrani – SIH 2024 Winner

Nov 2023 – May 2024

Full-Stack Developer

GitHub

- Developed a carbon emission monitoring platform for Indian coal mines; won Smart India Hackathon 2024.
- Built real-time dashboards, carbon sink estimation modules, and intuitive user workflows.
- Practiced Agile methodology and contributed to team leadership; reduced manual data entry by 30%.

MERN Chat App with Google Gemini API

Sep 2023 – Jan 2024

Full-Stack Developer

GitHub

- Created a real-time chat app using MERN stack, Socket.io, and Gemini API.
- Improved user engagement by 25% via responsive UI, secure authentication, and smooth communication.
- Collaborated in Agile sprints, consistently meeting deadlines.

Experience

AI and Green Skills Internship — Edunet Foundation (AICTE and Shell)

Remote | Apr 2025 – May 2025

- Built and deployed an ML-powered Crop and Fertilizer Recommendation System (kropgenie.streamlit.app) using Decision Trees and Scikit-learn.
- Suggested optimal crops and fertilizers based on soil and environmental conditions
- Gained hands-on experience in Python, Seaborn, Matplotlib, and machine learning pipelines.
- Selected among top 1% nationwide for demonstrating AI-based sustainable agriculture innovations.

Education

B.Tech in Computer Science and Engineering

Seth Jai Parkash Mukand Lal Institute of Engineering and Technology, Radaur, Haryana

Expected Graduation: 2026

CGPA: 7.494 (Till 5th Semester)

Certifications

- **Career Essentials in Generative AI – Microsoft/LinkedIn:** Generative AI, Prompt Engineering
- **Virtual Internships – Goldman Sachs, Walmart, AWS:** Software Engineering, Cloud Services

Achievements

- Winner, Smart India Hackathon 2024 – Led a national-winning team among 1500+ teams.