Sarthak Garg

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

Summary

Full Stack Developer and AI/ML Enthusiast with practical experience in building scalable web applications using the MERN stack and exploring machine learning concepts using Python and NLP. National Winner of Smart India Hackathon 2024. Proficient in RESTful APIs, backend optimization, responsive UI design, and real-time data dashboards. Strong communicator with a collaborative mindset and a passion for solving real-world problems through technology.

Technical Skills

- **Languages:** JavaScript (ES6), Python, SQL
- **Frontend:** React.js, Tailwind CSS, Responsive Design
- **Backend:** Node.js, Express.js, REST APIs
- **Database:** MongoDB, PostgreSQL
- **Tools:** Git, GitHub, Postman
- **Platforms/OS:** Windows, Ubuntu

Soft Skills

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

Projects

Carbon Nigrani — SIH 2024 Winner   Nov 2024 – May 2025
Full-Stack Developer

- Engineered a carbon emission tracking platform with real-time dashboards for Indian coal mines.
- Built carbon sink modules and optimized data workflows, reducing manual reporting time by 30%.

Spam/Ham Detection using NLP [Live] | [GitHub]   June 2025
ML Developer

- Developed a text classification model using TF-IDF and Logistic Regression to flag spam messages.
- Achieved 94% accuracy on test data; implemented end-to-end preprocessing and evaluation pipeline.

Ubuntu Web OS Simulation [Live] | [GitHub]   July 2025
Frontend Developer

- Built a full-stack Ubuntu-style web OS using Next.js 14, TypeScript, Tailwind CSS, and Framer Motion.
- Simulated core OS features — boot, lock, multi-window apps — with smooth animations and system UI.
- Included pre-installed apps like Terminal, Browser, Spotify, Settings, and an interactive portfolio.

Experience

AI and Green Skills Intern — Edunet Foundation (AICTE & Shell)   Remote | Apr 2025 – May 2025

- Developed an ML-powered Crop and Fertilizer Recommendation System [Live] using Decision Trees and Scikit-learn.
- Integrated environmental datasets and deployed a Streamlit web app for real-time, location-aware agricultural recommendations.
- Ranked in the top 1% nationwide for sustainable AI innovation in agriculture.

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 / 10 (Till 5th Semester)

Class XII (CBSE)
Narsingh Dass Public School, Taraori, Karnal - 132116
Year of Completion: 2022   Score: 82%

Certifications

- **Career Essentials in Generative AI – Microsoft/LinkedIn (July 2024):** Generative AI fundamentals, Prompt Engineering techniques
- **Virtual Internship – Goldman Sachs (March 2025):** Password best practices, Cryptography basics
- **Virtual Internship – Amazon Web Services (AWS) (May 2025):** Architecture diagrams

Achievements

- Winner, Smart India Hackathon 2024 – Led a nationally winning team among 1500+ teams; solved a real-world problem proposed by Ministry of Coal.