

Shivam goswami

B.tech — Sustainable energy technologies — Electrical Engineering

NIT Kurukshetra, Haryana, India

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PROFILE

Focused on developing strong technical, electrical technologies, and ml skills. Passionate about scalable, user-centric software, sustainable systems, AI/ML, JAVA and collaboration-driven platforms that bridge engineering with design.

EDUCATION

Aug 2024 — Present **Bachelor of Technology in Sustainable Energy Technologies, EE, NIT Kurukshetra**

PROJECTS

SAKSHAM — Student Collaboration Platform campus.nitingoyal.tech

Built a full-stack platform that enables college students to collaborate, share ideas, and showcase projects. done a role of Team Leader and Frontend/ UI/UX design and some techstacks are React, Tailwind CSS, Node.js, Express, , SQLite, React Router, React Query, etc. Handled complete VPS deployment and production pipeline configuration.

YOLO-Based Crop Disease Detection using drone [currently working](#)

Designed an autonomous precision agriculture system using YOLO-based computer vision for real-time crop disease detection. Integrated IoT sensors (soil moisture, temperature, humidity) to support intelligent spraying decisions. Deployed the trained model on Raspberry Pi and implemented selective pesticide spraying to reduce chemical usage and improve efficiency.

Trip planner via capstone project <https://github.com/12shivam1212/Capstone.git>

An 5 days google AI-powered capstone project. Multi-Agent Travel Planning System that automates the entire travel planning workflow through specialized agents working collaboratively: Research Agent - Searches for flights, hotels, and travel options Itinerary Agent - Creates optimized daily schedules Budget Agent - Tracks costs and suggests optimizations Recommendation Agent - Provides personalized activity and dining suggestions

SKILLS

MATLAB, SIMULINK, interested in designing solar/drone/ev technologies understanding of renewable energy systems, electrical power systems, thermodynamics principles, circuit theory, solar pv cells.

Programming - Python, Java, Git, AI, machine learning, web designing

Design and Figma, UI/UX Prototyping, System Architecture Planning

Soft Skills: excellent communication, teamwork, problem-solving, analytical thinking, and time management.