SAURABH SINGH

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EDUCATION

Central University of Haryana   July 2023 - June 2025
Master of Computer Application   Haryana, India

Bareilly College, Bareilly   July 2019 – June 2022
Bachelor of Computer Application   Uttar Pradesh, India

PROJECTS

Major Project: TrashTrack – AI-Powered Smart Waste Management System

Technologies Used: Django, Machine Learning, JavaScript, HTML, CSS, SQLite, Leaflet.js

Project Overview:

Developed an AI-integrated smart waste management system that classifies waste using ML models and monitors bin fill levels. The project includes a web platform for tracking bin locations, automated notifications for full bins, and a purchasing gateway for companies to buy categorized waste.

Key Features:

- Developed an ML model for waste classification to detect and categorize waste types.
- Implemented smart bin monitoring with sensors to track fill levels and send real-time updates.
- Designed an interactive web dashboard using Leaflet.js to visualize bin locations and waste status.
- Integrated an automated alert system to notify when bins reach capacity.

Password Generator

Project Overview:

The Password Generator is a web-based application built using HTML, CSS, and JavaScript to help users generate strong and secure passwords. The application allows users to customize their passwords based on length and character preferences, ensuring enhanced security for online accounts.

Key Features:

- Enabled customizable password length, allowing users to define their desired length.
- Implemented character selection with options for uppercase letters, lowercase letters, numbers, and special characters.
- Designed a user-friendly, responsive UI using CSS for a seamless experience.
- Added a one-click copy-to-clipboard functionality for easy password copying.

TECHNICAL SKILLS

Programming Languages: Python, C++, JavaScript.
Web Development: Django, React, HTML, CSS, Tailwind CSS, JavaScript
Databases & APIs: SQL, Django Rest Framework, REST APIs
Coursework: Computer Networking, Operating Systems, OOPs, Relational Database.

EXPIRIENCE

Web Development Intern   08/2024 – 09/2024 [Remote]
Prodigy Infotech Private Limited
- Gained hands-on experience in web development.
- Learned and applied HTML, CSS, JavaScript, and API integration.

Machine Learning in Cyber Security Bootcamp   03/02/2025 – 10/02/2025 [Remote]
Organized by CDAC Hyderabad
Completed an intensive bootcamp focused on machine learning applications in cyber security.
- Gained practical knowledge and skills in machine learning techniques and their implementation in cyber security.

ACHIEVEMENTS

- Secured 2nd place in the College Technical Quiz Competition, demonstrating strong technical knowledge
- Coding Club Coordinator (CUH)