Dhruv Agrawal

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Education

Indian Institute of Technology (ISM) Dhanbad Expected May 2027
Bachelor of Technology in Computer Science and Engineering (GPA: 8.94 / 10.00) *Dhanbad, Jharkhand*
- **Professional Summary:** I am a Computer Science student with a deep interest in web development, competitive programming, and algorithm development. With hands-on experience in building dynamic web applications and user-centric interfaces, I thrive on solving real-world problems. I continuously seek to improve through project-based learning and participation in competitions. My approach is rooted in learning from every experience and sharing that knowledge with others. You can view my portfolio at dhruv-portfolioo.netlify.app.

Experience

Cyberlabs, Web Development Division Dec 2023 – Present
Web Developer Member *IIT (ISM) Dhanbad, Jharkhand*
- Gained hands-on experience by working as a team member on various interdivision projects, collaborating with fellow Cyberlabs members on real-world web development challenges and enhancing technical proficiency in frontend and backend technologies.

Internal Hackathon for Smart India Hackathon Aug 2024
Web Developer - AI-powered Bot Detection System *IIT (ISM) Dhanbad, Jharkhand*
- Contributed as a web developer to build an AI-powered bot detection system, implementing real-time monitoring of user interactions and data transmission.
- Developed the frontend and integrated with a Flask-based backend, ensuring seamless data flow for machine learning analysis.
- Collaborated with the ML team to integrate a CNN model for classifying user behavior, playing a key role in building the system's bot detection capabilities.

Projects

Study Hub | *Cyberlabs Recruitment, Winter of Code — Dec 2023* | *HTML, CSS, JavaScript, Firebase*
- Developed a student-centered Q&A platform with features for connecting, sharing knowledge, and accessing study resources.
- Enabled seamless file uploads and a community-driven repository for academic materials.
- GitHub: https://github.com/Dhruv460/studyHub

Bot Proof - Intelligent Bot Detection System | *React.js, Flask, MongoDB, Node.js, Express.js, Socket.io*
- Bot Proof is an AI-powered system to detect bot activities by monitoring user interactions and mouse movements.
- Developed the React frontend for real-time interaction tracking and designed WebSocket-based data transmission.
- Implemented RESTful API endpoints for efficient data flow and secure communication between the frontend and Flask backend.
- Collaborated with the backend team to process and analyze data, integrating smoothly with a CNN model for behavior classification.
- GitHub: https://github.com/Dhruv460/sih$_{bot}$

Project Collab - Collaborative Platform for Innovators (In Progress) | *MERN Stack, OpenAI API, Socket.io*
- Developing a collaborative platform for idea-sharing and networking with real-time chat and AI-powered project matching.
- Creating tools for project management and community engagement.
- GitHub: https://github.com/Dhruv460/project-collab-

Technical Skills

Languages: C, C++, JavaScript, HTML, CSS
Technologies: MERN Stack (MongoDB, Express.js, React.js, Node.js), Flask
Concepts: Data Structures and Algorithms, API Development, Web Development, Database Management