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.

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 web platform that fosters academic excellence by enabling students to connect, ask questions, and share knowledge.
- Key features include a community-driven Q&A system, a repository of study materials, and an easy-to-use interface for uploading and accessing study resources.
- Implemented key functionalities to enhance user engagement and collaboration in a seamless learning environment.
- View the project on GitHub: https://github.com/Dhruv460/studyHub

Bot Proof - Intelligent Bot Detection System | *React.js, Flask, MongoDB, Node.js, Express.js, Socket.io*

- Contributed as a web developer to build an AI-powered bot detection system that monitors user interactions and mouse movements.
- Implemented real-time data transmission from the frontend to the backend via WebSocket, allowing continuous user monitoring.
- Collaborated with a team to develop Bot Proof, an AI-powered system that detects and blocks bot activities on web platforms.
- Designed and implemented the frontend using modern web technologies to track user interactions and mouse movements in real-time.
- Developed API endpoints to ensure seamless data transmission from the frontend to the backend for analysis.
- Integrated a Flask-based backend to preprocess the collected data and prepare it for the machine learning model.
- Worked closely with the machine learning team to connect a Convolutional Neural Network (CNN) model that classifies user behavior.
- built a feature that interprets the ML model's predictions, determining whether to allow or block the user.
- View the project on GitHub: https://github.com/Dhruv460/sih$_{b}ot$

Project Collab - Collaborative Platform for Innovators (In Progress) | *MERN Stack, OpenAI API, Socket.io*

- Collaborated on a web platform enabling users to share ideas and collaborate on projects, providing a creative space for professionals.
- Designed and implemented a real-time communication feature using Socket.io to enhance collaboration between users.
- Integrated OpenAI API for advanced task suggestions and collaboration support, improving project matching efficiency.
- Building features for users to share ideas, network, and collaborate on innovative solutions.
- Implementing project management tools and a community engagement system to facilitate seamless teamwork.
- Focused on creating a space for entrepreneurs, developers, and designers to bring ideas to life.
- View the project on 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