

# Yash Kumar

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## Professional Summary

Aspiring **Software Engineer and Frontend Developer** with a strong foundation in **Machine Learning and Deep Learning**, alongside hands-on experience in **web development**. Skilled in building **responsive, user-friendly interfaces** and integrating **ML-powered features** into real-world applications. Proficient in **React, Next.js, Tailwind CSS, and JavaScript**, with backend exposure using **Python and Flask**. Passionate about solving problems through **Data Structures & Algorithms** and developing efficient, scalable, and impactful digital solutions.

## Education

**B.Tech in Artificial Intelligence and Machine Learning**, University School Of Automation and Robotics(GGSIPU EDC) -- 2024 – 2028 (Expected)

*CGPA: 8.0+*

**Relevant Coursework:** Data Structures & Algorithms, Machine Learning, Database Management Systems (DBMS), Operating Systems, Artificial Intelligence, Computer Networks, OOPs(Object-Oriented programming).

## Technical Skills

- Languages:** JavaScript (ES6+), TypeScript, Python, C++, HTML5, CSS3, SQL.
- Frontend Development:** Next.js, React.js, Tailwind CSS, Redux, Responsive Design
- Backend Development:** Node.js, Express.js, Socket.io, RESTful APIs
- Database & Cloud:** MongoDB, Supabase, Firebase, NextAuth.js
- Machine Learning and Deep learning:** Scikit-learn, Pandas, NumPy, PyTorch, Keras, Yolov8, Tensorflow.
- Developer Tools:** Git, GitHub, Vercel, Postman, VS Code

## Key Projects

### 1. Helmet Detection & Prediction System(ML and DL)

Tech Stack: Python, YOLOv8 / YOLOv5, OpenCV, Flask, NumPy, HTML/CSS, JavaScript

- Built a real-time helmet detection system using deep learning to identify helmet vs no-helmet riders from images and videos.
- Implemented YOLO-based object detection for accurate localization of persons, motorcycles, and helmets with high inference speed.
- Designed a multi-stage detection pipeline to improve helmet classification accuracy on riders.

### 2. Created Website: <https://www.dynatechcontrols.in/>

Tech Stack: Next.js / React, Tailwind CSS, JavaScript/TypeScript, HTML5, CSS3, Resend API, GitHub, Vercel (Deployment), Packwebhosting(Hosting)

- Designed and developed the official company website for *Dynatech Controls* with a modern, responsive UI.
- Built the frontend using React / Next.js and Tailwind CSS for fast performance and clean, scalable styling.
- Implemented responsive layouts optimized for desktop, tablet, and mobile devices and Optimized website performance using component-based architecture and SEO-friendly structure..
- Delivered end-to-end deployment, including production build, hosting, and domain integration.

## Certifications

- Certificate for Appreciation in SIH 2025 (Cleared University-Level 2 Rounds).**
- Certificate for Participating In CodeX: Hackathon.**