

Pranjal Srivastava

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Professional Summary

Third-year Computer Science undergraduate (CGPA: 8.73/10) with hands-on experience in building full-stack web applications, real-time monitoring systems, and data-driven platforms. Strong foundation in frontend engineering, backend API development, and scalable system design through industry training and academic projects.

Education

Bennett University, Greater Noida, India *Aug 2023 – Present*
Bachelor of Technology in Computer Science (AI/ML Minor) **CGPA: 8.73/10**
Relevant Coursework: Data Structures & Algorithms, Database Systems, Operating Systems, Software Engineering

Technical Skills

Programming & Scripting: C++, Python, JavaScript, TypeScript, SQL
Frameworks & Libraries: React, FastAPI, Django, Express.js
Databases & Cloud: PostgreSQL, MySQL, MongoDB, AWS (EC2, S3, RDS)
Tools & DevOps: Git, GitHub Actions, CI/CD Pipelines

Experience

Frontend & Backend Developer (Trainee) *Jun 2025 – Aug 2025*
Research Design & Standards Organisation (RDSO), Indian Railways — Lucknow, India

- Architected a real-time Train Braking Monitoring System processing 1,200+ telemetry signals per cycle, achieving 99.7% data capture accuracy and reducing fault detection time by 40%.
- Engineered responsive dashboards using HTML, CSS, JavaScript, and React to visualize 12+ braking metrics, pressure levels, and automated safety alerts, serving 25+ daily active users.
- Collaborated with 6+ railway engineers and peer developers to translate official railway safety standards into scalable software modules, cutting deployment time by 30%.
- Improved overall system responsiveness by 20–25% through frontend rendering optimization and backend data-flow tuning, reducing page load times from 2.8s to 2.1s.

Projects

Blue Carbon MRV System 🌐 — Web Development, Blockchain, Environmental Tech *Sep 2025*

- Designed and developed a Monitoring, Reporting, and Verification (MRV) platform covering 3+ blue carbon ecosystems, including mangroves and coastal wetlands.
- Built analytical dashboards visualizing carbon sequestration, biomass distribution, and environmental performance metrics.
- Integrated backend pipelines to ingest, validate, and process large-scale environmental datasets for audit-ready carbon credit reporting.
- Established transparent, traceable data workflows aligned with international climate reporting standards.

Pathshala — Online Learning Management System 🌐 — Full-Stack Web Development *Jan 2025*

- Built a comprehensive educational platform connecting 100+ students with coaching institutes, featuring institute discovery, enrollment management, and progress tracking across web and mobile interfaces.
- Developed dual-portal architecture with student-facing features and institute management dashboard with advanced analytics.
- Engineered secure backend services with role-based access control supporting multiple user roles (students, educators, administrators) and authentication flows, reducing manual administrative tasks by 40%.

Leadership & Activities

- Participated in 5+ national and intra-college hackathons, delivering end-to-end software solutions under strict time constraints.
- Advanced to Round 2 of Smart India Hackathon (SIH), with the team ranked among the Top 100 at the college level.
- Collaborated in 3–5 member cross-functional teams to ideate, build, and present functional software prototypes.
- Actively explored emerging technologies through project-based learning and competitive development environments.