

Karmveer Kumar

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Summary — Third-year Electrical Engineering undergraduate at NIT Hamirpur with a keen interest in both core engineering and IT domains. Proficient in C++ with a focus on Data Structures and Algorithms, along with working knowledge of web development and SQL. Quick to learn, adaptable, and eager to contribute to meaningful projects through internship opportunities.

Skills

- **Programming & Scripting:** C++, Python, HTML, CSS, JavaScript
- **Development Tools:** VS Code, Git, GitHub, LaTeX, MATLAB, LTSpice
- **Data Structures & Algorithms:** Proficient in C++
- **Databases & Backend:** SQL, Flask(Python)
- **AI & Productivity Tools:** ChatGPT, DeepSeek, Gemini

Education

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| National Institute of Technology, Hamirpur
<i>Bachelor of Technology in Electrical Engineering</i> | 2023 — 2027
CGPA: 9.2 |
| Class 12th
<i>R.K.K College</i> | 2020 — 2022
Percentage: 82.40 % |
| Class 10th
<i>Bijendra Public School</i> | 2019 — 2020
Percentage: 96.00 % |
- Achievements**
- Selected for Smart India Hackathon 2024 and ranked 7th in internal Hackathon in overall collage.
 - Cleared National Defence Academy (NDA) written exam and qualified for SSB interview. Attended 5-day selection process at 3 AFSB (Air Force Selection Board), Gandhinagar

Projects

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|--|---------------------------------|
| Library Management System
– Developed a full-stack Library Management System using HTML/CSS, Flask, and MySQL to manage books, users, and admin functionalities.
– Implemented secure login/signup with role-based access (Student, Librarian, Admin) for book tracking, issue/return, and inventory updates. | June 2025 – June 2025 |
| End-Sem Marks Predictor (Kalman Filter)
– Designed a prediction model to estimate students' end-semester scores using academic and behavioral inputs with Gaussian kernel transformation for enhanced feature non-linearity.
– Implemented Kalman-filter-based Recursive Least Squares (RLS) for real-time weight updates and improved prediction accuracy. | April 2025 – May 2025 |
| Fuzzy Logic-Based Smart Braking System
– Developed an intelligent braking system in MATLAB using fuzzy logic to simulate real-time vehicle control.
– Designed membership functions for speed and distance and implemented rule-based inference for adaptive braking. fuzzification, rule evaluation, and defuzzification (center of gravity) for smooth and safe brake response. | April 2025 – April 2025 |
| Smart India Hackathon 2024 – Innovation in Tourism Industry
– Developed a web application to enhance tourism experiences with features such as planning travel needs, accommodation, community forums, and offline downloads.
– Implemented the front-end using HTML, CSS, and JavaScript and collaborated with a back-end team for dynamic content management. | August 2024 – Sept. 2024 |

Extra-Curricular Activities

- **Martial Arts:** Regular fitness enthusiast, committed to physical well-being.

Language

- English (Fluent)
- Hindi (Native)