

# SUDEEP J

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| Portfolio: <https://mydesignsite.vercel.app/>

## PROFESSIONAL SUMMARY

- Motivated and quick-learning fresher with strong problem-solving and communication skills.
- Seeking an opportunity to demonstrate my academic knowledge and begin a professional career while contributing to organizational success.

## EDUCATION

- |   |           |
|---|-----------|
| • <b>New Horizon College of Engineering</b><br>B.E-Electrical and Electronics Engineering (2022-2026) | 8.30 CGPA |
| • <b>St. Francis Institution (Bangalore)</b><br>PCMC- 12th.   | 85.22%    |

## TECHNICAL SKILLS

- **Programming:** Java, Python, OOPs and DSA.
- **Networking & Databases:** MySQL, Computer Networking Concepts, DBMS.
- **Soft Skills:** Problem Solving, Leadership, Teamwork, Communication, Logical Thinking

## PROJECTS

### 1. SMART COLLISION DETECTOR FOR DRIVERLESS VEHICLES

- Developed an Arduino-based collision detection system to enhance the safety of driverless vehicles. Used ultrasonic sensors to continuously scan for nearby obstacles and trigger real-time alerts to prevent collisions. Focused on accurate sensor calibration, fast data processing, and reliable obstacle detection.
- Designed the project to be easily scalable and adaptable for future improvements in autonomous vehicle technology

### 2. DESIGN AND SIMULATION OF A HIGH-SPEED AI ACCELERATOR CORE USING DOMINO LOGIC

- This project proposes the design of a MAC unit using Domino logic, which is significant speed over traditional CMOS logic. The aim is to enable AI processing for edge and embedded applications with improved efficiency.

### 3. DIGITAL EXPENSE MONITORING SYSTEM

- Currently developing a web-based Expense Tracker system to help users record, categorize, and monitor daily spending through an intuitive interface. Implementing backend logic for secure data storage, automated calculations, and real-time analytics such as monthly and category-wise reports.
- Designing a structured database with plans for secure login, user profiles, and budgeting information, along with notifications for budget limits and monthly summaries. Aiming to deliver a complete end-to-end solution that enhances personal financial management with accurate insights and strong security.

## CERTIFICATIONS

- Solved Java 500+ problems - [Code Chef](#).
- Data Science Foundation – [IBM](#).
- SQL Foundation Course – [Hacker Rank](#)

## LEADERSHIP & INITIATIVES

**Published Patent:** “*Ventilated Smart Techno Shoe for Trekking*” Designed a smart trekking shoe with integrated sensors to monitor steps, terrain, and environmental conditions .

**LANGUAGES:** English, Kannada, Hindi.