VISHAL SHARMA

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PROFILE

B.Tech student with skills in C++, Data Structures & Algorithms (DSA), and full-stack development using the MERN stack. Experience in building web applications and working with REST APIs. Familiar with the Software Development Life Cycle (SDLC), Object-Oriented Programming (OOPs), and version control systems (Git/GitHub) and Agile development.

EDUCATION

B. Tech in **Electronics & Communication Engineering (Computer Science)**

Guru Gobind Singh Indraprastha University (GGSIPU), New Delhi | 2021 - 2025 | **CGPA: 8.0/10**

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Object-Oriented Programming, Database Management Systems

WORK EXPERIENCE

Internship - Software Developer

National Informatics Centre (NIC) | (January-2025 to Present)

- Website Revamp: Recreating the NCBC (National Commission for Backward Classes) website with improved UI/UX and modern technologies.
- Tech Stack: Developing using React.js, Node.js, Express.js, MariaDB, and integrating RESTful APIs for dynamic data handling.
- Optimization & Compliance: Enhancing website performance, security, and ensuring adherence to government accessibility standards.

Data Science in Python

- Gained practical experience at **Veeyo Tech**, working on various machine learning projects.
- Developed a disease prediction model using **machine learning**.
- Applied theoretical knowledge to real-world scenarios, enhancing understanding of **machine learning algorithms** and **data analysis**.
- Actively participated in team discussions, contributing to problem-solving activities and technical tasks.

Full Stack Web Development (MERN)

- Completed a 1-month MERN stack training at DigiPaath, culminating in the development of a restaurant billing website as a capstone project.
- Acquired hands-on experience in building full-stack web applications using **MongoDB**, **Express.js**, **React.js**, and **Node.js**.
- Focused on creating a seamless user experience for managing orders and billing processes, enhancing full-stack development skills.

PROJECTS

NCBC Website Development – National Informatics Centre (NIC)

- Led the revamp of the NCBC (National Commission for Backward Classes) website with improved UI/UX and modern full-stack architecture.
- Developed a responsive frontend in React.js and integrated secure backend services using Node.js, Express.js, and MariaDB.
- Built role-based dashboards with JWT authentication, managing admin and officer-level logins.
- Optimized performance as per government standards.
- Technologies Used: React.js, Node.js, Express.js, MariaDB, REST API

ECG Classification Using 1D Convolutional Neural Networks

- Developed and implemented a deep learning model to classify heartbeat anomalies from ECG signals using the **MIT-BIH dataset**.
- Achieved a classification accuracy of **96.34%** with balanced performance across all classes using class weights to handle data imbalance.
- Technologies Used: Python, TensorFlow/Keras, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn.

SKILLS

- **Programming Languages:** C++, JavaScript (ES6), Python.
- **FrameWork and Libraries:** React.js, Node.js, Express.js, MongoDB, REST API, HTML5, CSS, JSON
- **Developer Tools:** MySQL, Git, GitHub, Netlify, Postman, Visual Studio Code
- **Database Management:** MongoDB (NoSQL), SQL
- **Methodologies:** Agile, Version Control
- **Soft Skills:** Problem-Solving, Team Collaboration, Time Management