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Vasudha Sharma

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Skills

Programming Languages: C++, Java, Python, JavaScript, TypeScript, SQL
Web Development: HTML, CSS, JavaScript, React
Frameworks / Libraries: React, Pygame
Developer Tools: Git, VS Code
Databases: MySQL
CS Fundamentals: Data Structures and Algorithms

Leadership & Involvement

Core Member, SPACE Astronomy Club   2019–2020
- Participated in stargazing nights, telescope training, and astrophysics seminars

Core Member, VITronix Club   2025–Present
- Collaborated on tech workshops, coding competitions, and mentorship sessions

Participant, Manchester United Soccer School   2015
- Trained in advanced football techniques and team coordination

Member, Community Outreach Programme   2022
- Contributed to social initiatives focused on education and digital literacy

Brown Belt, SEIGO-KAI KARATE-DO Association   2020
- Practiced discipline and self-defense through consistent martial arts training

Projects

2D Mario-Inspired Game (Pygame)
- Developed a side-scrolling game with animations, sound, scoring, and collision detection

Sign Detection with OpenCV
- Real-time sign detection using Python and OpenCV with high accuracy

Credit Card Fraud Detection (ML)
- Team-based ML model with 94.6% accuracy; involved in preprocessing, feature selection, and tuning

Hand Gesture Controlled Bot (Arduino)
- Gesture-based control using MPU6050 sensor and Arduino for robotic movement

Inspection Sample Tool (React)
- UI for sample size calculator with logic based on distribution, rounding and API integration

CO Emissions Calculator (T-SQL, SQL Server)
- Developed a tool to estimate shipment emissions using real-world data and DEFRA standards
- Used T-SQL to implement logic with distance (Haversine) and emission factor calculations
- Supports both sea and air shipments; logic ready for production integration

Experience

Full-Stack Developer Intern, 28one Sourcing India Pvt. Ltd   May 2025 – July 2025
- 28one is a Hong Kong-based MNC operating in 12+ countries, providing digital sourcing and quality management solutions to global retail brands
- The CLIV platform includes web apps built with Angular and ReactJS (frontend) and NestJS (backend), supporting field inspections with offline capabilities
- Contributed to a production-ready inspection sampling tool using **React** and **TypeScript**
- Built responsive UI components and implemented proportional logic, rounding, and form validation
- Developed a CO emissions calculator in **T-SQL**, applying DEFRA standards and Haversine logic to estimate shipment emissions
- Integrated tools into 28one's CLIV platform—used by global retail clients for sourcing and inspection

Relevant Courses

- Back-End Developer – Meta
- Specialization in C++ – Coursera
- Cloud Computing – Microsoft
- Python Programming – Microsoft
- Fundamentals of AI & ML – Vityarthi
- Python Essentials – Vityarthi
- Programming in Java – Vityarthi
- Introduction to Machine Learning- NPTEL

Languages

English: Fluent
Hindi: Native
German: Basic

Education

B.Tech in Computer Science, VIT University   2023 – 2027
- CGPA: 9.24 / 10

Higher Secondary (10+2), Amity International School, New Delhi