

# VIDHAN VERMA

Roorkee, Uttarakhand, India

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## Education

### Graphic Era Hill University

*Bachelor of Technology in Computer Science (CGPA: 7.7/10)*

Aug 2022 – Present

Dehradun, Uttarakhand

### Anand Swaroop Arya Saraswati Vidya Mandir

*Intermediate (CBSE) - 86.50%*

2021

Roorkee, Uttarakhand

### Anand Swaroop Arya Saraswati Vidya Mandir

*Matriculation (CBSE) - 89.80%*

2019

Roorkee, Uttarakhand

## Internships

### Front-End Web Development Intern, Edunet Foundation (IBM SkillsBuild)

Aug 2025 – Oct 2025

- Selected for the AICTE–Edunet 6-week virtual cohort focused on front-end development using HTML, CSS, and JS.
- Completed **IBM SkillsBuild** coursework while improving skills in **HTML layout, CSS styling, and JS logic**.
- Built a practical project under guidance, applying HTML for structure, CSS for styling, and JavaScript for interactivity.
- Maintained communication, met milestones, followed program guidelines, and demonstrated progress in front-end skills.

### SDE Intern, TBI-GEU

Nov 2024 – Feb 2025

- Engineered and deployed full-stack solutions using **MERN** stack, improving Expense Manager through scalable APIs.
- Collaborated via Agile practices, enhancing backend data workflows, **version control**, and CI/CD processes.
- **Designed backend data integrity checks**, optimized API performance, and contributed to production deployment.

## Projects

### Expense Manager with Intelligent SMS Parsing — Node.js, React, MongoDB, Android 🐙

Nov 2025

- Developed a full-stack **expense manager with SMS-based extraction**, fully deployed on Render and working live.
- Implemented an Android SMS forwarding module that reads bank alerts and reliably transmits them to the backend.
- Added manual transaction entry so users can edit, categorize, and correct records while maintaining consistency.
- Designed detailed category-wise analytics dashboards offering monthly summaries with insightful spending patterns.
- **Built authentication, protected API routes, and a scalable backend** ensuring secure usage across devices.
- **Cross platform Communication:** Android captures SMS → backend → server → viewed through a simple JS UI.
- Live Deployment: 🐙 deployed on Render in production with data, kept active by UptimeRobot to prevent sleeping.

### Parkinson's Disease Detection System — Python, scikit-learn, SVM, Random Forest, KNN 🐙

May 2025

- Developed a machine learning system for early detection of Parkinson's Disease using hand-drawn spirals and waves.
- Performed essential image preprocessing including noise removal, thresholding, and contour isolation using **OpenCV**.
- Extracted discriminative visual features through **Histogram of Oriented Gradients (HOG)** to analyze distortions.
- Trained multiple ML models — **Random Forest, SVM, and KNN** — achieving **90% accuracy** on extradatasets.
- Built explainable visualizations highlighting feature importance and decision boundaries to assist clinical interpretation.
- **End-to-end workflow:** Preprocess → extract HOG features → classify ML models → display predictions with insights.

### Realtime Chat Application — React.js, Tailwind CSS, Node.js, Socket.IO, JWT, MongoDB 🐙

Jan 2025

- Built a chat platform supporting private and group chats via WebSockets for smooth, fast real-time communication.
- Developed responsive and accessible UI using React and Tailwind CSS, ensuring user-friendly experience across devices.
- Integrated JWT auth with secure user login, registration, and **API protection for safe data backend operations**.
- Added typing indicators, user search, and theme switching for an engaging, interactive chat experience with smooth UI.
- **Optimized backend performance**, enabling faster response times and improved synchronization using **Socket.IO**.

## Technical Skills

- **Languages:** C++, Python, SQL, Java, JavaScript
- **Frameworks/Libraries:** Vanilla JavaScript, Node.js, Express, scikit-learn, Android (Java)
- **Databases:** MongoDB, MySQL
- **Tools:** Git, Jupyter Notebook, VS Code, Postman, Render

## Achievements

- **Completed Web Development Front-End Program by Wisseniare IIT Bhubaneswar** (Feb 2024 – Mar 2024).
- Solved 190+ problems on LeetCode and 200+ problems on Coding Ninjas, enhancing algorithmic thinking consistency.
- Completed Data Structures in C++ course Coding Ninjas (Sep 2023 – Jan 2024), improving problem-solving foundation.
- Completed SWAYAM 4-credit Cyber Security course (May 2024) offered by Dr. Babasaheb Ambedkar Open University.