

VIDHAN VERMA

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Education

Graphic Era Hill University	Aug 2022 – Present
<i>Bachelor of Technology in Computer Science (CGPA: 7.7/10)</i>	<i>Dehradun, Uttarakhand</i>
Anand Swaroop Arya Saraswati Vidya Mandir	2021
<i>Intermediate (CBSE) - 86.50%</i>	<i>Roorkee, Uttarakhand</i>
Anand Swaroop Arya Saraswati Vidya Mandir	2019
<i>Matriculation (CBSE) - 89.80%</i>	<i>Roorkee, Uttarakhand</i>

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 extradata sets.	
– 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.