

VAISHNAVI GERA

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EDUCATION

B.E - Thapar Institute of Engineering and Technology - Computer Science

2022 – 2026

Expected in 2026 - CGPA - 9.46

Patiala, India

MM International School,Mullana

May 2021 – June 2022

Percentage - 94.2%

Mullana, Amabala road

EXPERIENCE

Bureau of Indian Standards(BIS), New Delhi

June 2025 – July 2025

Research Intern

Bridging WCAG 2.x and IS 17802: Gaps, Additions, and Recommendations

- Researched and mapped key differences between global (WCAG 2.1/2.2) and Indian (IS 17802) digital accessibility standards to identify compliance gaps and strategic improvement areas.
- Collaborated with experts to translate complex technical policies into clear, actionable recommendations—sharpening stakeholder communication and policy consulting skills.
- Proposed evidence-based policy recommendations for enhancing digital accessibility in software, non-web documents, and public ICT systems.

PROJECTS

ExpiryEye | *Python, HTML, CSS, Javascript*

Sep 2024 – Nov 2024

- Expiry Eye is a smart and innovative application designed to automatically extract expiry dates from images of consumable products using camera input. The system then monitors these dates and sends timely notifications to users, reminding them before any product expires.

ClientGuard | *Machine learning, Python, User Interface Design*

Nov 2024 – Jan 2025

- Built a churn prediction system for e-commerce using customer behavior data, feature engineering, and Recursive Feature Elimination (RFE). Trained models like Logistic Regression, Random Forest (RF), and XGBoost, and evaluated them using accuracy and confusion matrix. Designed a simple interface ("ClientGuard") to present predictions, addressing privacy and model fairness challenges.

SAR: Search and Rescue Rover | *LIDAR and SLAM, YOLOv8, Deep Learning, OpenCV*

Feb 2025 – Present

- Currently developing an AI-powered Unmanned Ground Vehicle (UGV) designed to navigate hazardous terrains using LIDAR and intelligent control systems. The system generates high-resolution 3D maps, detects fire hazards, and locates survivors using thermal and vision-based AI models. It features live mapping via an app or video feed and supports optimized autonomous movement with obstacle avoidance and route planning to aid real-time disaster response.

SKILLS

Languages: C, C++, Python, CSS, JavaScript, SQL, R language

Tools & Technologies: Arduino Programming, AutoCAD, Microsoft Excel, Numpy, Pandas, Matlab, OpenCV

Developer Tools: VS Code, Arduino IDE, Oracle Live SQL, Kaggle, MongoDB

Coursework Skills: Data Structures and Algorithms, Computer Networks, Artificial Intelligence, Operating Systems, Database Management Systems, OOPs, Machine Learning, Data Science, CAO.

Additional skills: Communication and interpersonal skills, Business research and client outreach, Understanding of digital branding and marketing, Problem-solving and critical thinking, Understanding customer psychology, Data Analysis and Reporting

ACHIEVEMENTS

- Awarded Thapar Merit Scholarship of Rs 3.40 lakhs for 2023–2024 and Rs 1.92 lakhs for 2024–2025.

CERTIFICATIONS

- JPMorgan Chase & Co. Excel Skills Job Simulation
- Goldman Sachs Software Engineering - Forage
- Data Science and its applications - Coursera