

Taranpreet Kaur

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Technical Skills: Python (Numpy, Pandas, Seaborn, Scikit-learn), HTML, CSS, JavaScript, MySQL, Java, C++, Data Structure and Algorithms, Machine Learning, PowerBI, ReactJS, NodeJS.

Certification: MATLAB Onramp, Python (Stanford University's Code in Place), Java (HackerRank), MySQL (HackerRank), Cloud Computing (NPTEL), Marketing Analytics (NPTEL), AWS Solutions Architect- Associate Certification Program (Ethnus), GenAI (IBM).

EDUCATION			
Board	Tenure	Educational institution	CGPA/Percentage
B. Tech (CSE)	Jun 2022 –Ongoing	VIT University	8.97/10
Class XII	May 2022	Girls High School and College, Prayagraj	93.0%
Class X	May 2020	Girls High School and College, Prayagraj	91.0%

ACADEMIC PROJECTS	
KrishiAI (Jun 24-May 25)	<ul style="list-style-type: none">Deployed a real-time soil evaluation system using Random Forest and Logistic Regression, cutting nutrient waste by 15% across 500 hectares.Achieved 95.3% accuracy in soil health classification using advanced predictive modeling, optimizing agricultural decisions. Constructed a Flask-based backend for seamless frontend-sensor integration.
LidarSight- Realtime-Object Detection Using LiDAR Data (Jan 25–May 25)	<ul style="list-style-type: none">Integrated LiDAR data with custom MATLAB algorithms, improving real-time object detection speed by 25% across 1,000+ point clouds.Designed efficient object processing for 500+ data points in collaboration with a 5-member team, ensuring successful deployment.
VITALK (Feb 24-May 24)	<ul style="list-style-type: none">Designed 'VITalk,' a social media app for college students, integrating posts, events, login, and chat features for 5,000+ monthly active users.Built the app using HTML, CSS, React, and Node.js, scaling to support 10,000+ users with a 30% reduction in load time via agile workflows.
Dementia Prediction (Nov 23-Dec 23)	<ul style="list-style-type: none">Developed a dementia predictive model using Python and Random Forest, achieving 93% accuracy on a 373 observation OASIS dataset in a 5-person group project.Led coding and machine learning implementation, preprocessing 15+ features and producing 8 visualizations (e.g., scatter, heatmap) to analyze dementia patterns.

INTERNSHIP EXPERIENCE	
GSSoC'24 (May 24-Jul 24)	Open-Source Coding <ul style="list-style-type: none">Resolved 10+ issues in machine learning and web development during GSSoC'24, earning the Explorer Badge. Improved project functionality using Python, React, and MySQL in a collaborative remote setup.

EXTRA-CURRICULARS AND ACHIEVEMENTS	
Achievements	<ul style="list-style-type: none">Coded Python-based solutions for Flipkart Runaway 2024, resolving technical challenge in 48 hours.Competed in Google Girl Hackathon 2024, building solutions with ReactJS and Machine Learning.Analysed data in Forge Data Analytics and Visualization Job Simulation (Accenture), producing visualizations.
Responsibilities	<ul style="list-style-type: none">Led an environmental conservation event for NTC Club, guiding 200+ students in painting competitions (Feb 2024).Managed a workshop on ML Deployment, GitHub, and Open-Source Coding for Bit-by-Bit Club, training 150+ students.Directed Bit-by-Bit Club as Event Team Lead, organizing workshops for 150+ students.
Extracurricular	<ul style="list-style-type: none">Won 1st Prize in Poster Making Competition, showcasing creative design skills.Earned 3rd Prize in CardioQuest by Health-O-Tech Club, demonstrating health-tech engagement.Achieved 1st Prize in RangManch by Dramatics Club, excelling in dramatic performance.

ADDITIONAL INFORMATION	
Languages	<ul style="list-style-type: none">English, Hindi, Punjabi