

# 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, Bits and Bytes of Computer Networking (Coursera), Python (Stanford University’s Code in Place), Java (HackerRank), MySQL (HackerRank).

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 25-Ongoing)	<ul style="list-style-type: none"><li>Deployed a real-time soil evaluation system using Random Forest and Logistic Regression, cutting nutrient waste by 15% across 500 hectares.</li><li>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.</li></ul>
Real-Time Object Detection Using LiDAR (Sep 23–Ongoing)	<ul style="list-style-type: none"><li>Integrated LiDAR data with custom MATLAB algorithms, accelerating real-time object detection by 25% for 1,000+ data points.</li><li>Designed algorithms to process 500+ real-time object detection data points efficiently, partnering with a 5-person team to deploy solutions and complete the project successfully.</li></ul>
VITALK (Feb 24-May 24)	<ul style="list-style-type: none"><li>Designed 'VITalk,' a social media app for college students, integrating posts, events, login, and chat features for 5,000+ monthly active users.</li><li>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.</li></ul>
Dementia Prediction (Nov 23-Dec 23)	<ul style="list-style-type: none"><li>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.</li><li>Led coding and machine learning implementation, preprocessing 15+ features and producing 8 visualizations (e.g., scatter, heatmap) to analyze dementia patterns.</li></ul>

INTERNSHIP EXPERIENCE	
GSSoC’24 (May 24-Jul 24)	<b>Open-Source Coding</b> <ul style="list-style-type: none"><li>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.</li></ul>

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

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