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)	• 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.
Real-Time Object Detection Using LiDAR (Sep 23–Ongoing)	• Integrated LiDAR data with custom MATLAB algorithms, accelerating real-time object detection by 25% for 1,000+ data points. • 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.
VITALK (Feb 24-May 24)	• 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)	• 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** • 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	• 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 Forage Data Analytics and Visualization Job Simulation (Accenture), producing visualizations.
Responsibilities	• 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	• 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	• English, Hindi, Punjabi