Taranpreet Kaur

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Education

Vellore Institute of Technology, Bhopal — Sep 2022 – Present
B.Tech. in Computer Science Engineering
CGPA: 8.88

Technical Skills

Programming & Web Development: Java, Python, HTML, CSS, JavaScript, React.js
Machine Learning & AI: TensorFlow, Deep Learning (NLP, YOLO, CNNs), Data Preprocessing
Databases & Tools: MySQL, AWS, MATLAB, Git, IoT Devices

Projects

VITTalk (Full Stack Project - HTML, CSS, ReactJs)

- Engineered VITalk a comprehensive social media application tailored for college students, integrating core features like posts, events, and chat.
- Designed to accommodate over 5,000+ monthly active users, the application included robust and secure login functionalities.
- Built with HTML, CSS, and React, the platform successfully scaled to support 10,000+ users, reducing load time by 30%.

KrishiAI (IoT & ML Project - TensorFlow, IoT, ReactJs)

- Deployed a real-time soil evaluation system, leveraging Random Forest and Logistic Regression for agricultural analysis.
- Reduced nutrient waste by 15% across 500 hectares, achieving 95.3% accuracy in soil health classification.
- Optimized critical agricultural decisions through advanced predictive modeling and a Flask-based backend for seamless sensor integration.

LidarSight Realtime-Object Detection Using LiDAR Data (MATLAB)

- Integrated LiDAR data with custom MATLAB algorithms, improving real-time object detection speed by 25% across 1,000+ point clouds.
- Constructed efficient object processing pipelines, optimizing handling of 500+ data points for enhanced performance.
- Collaborated effectively within a 5-member team to ensure the successful development and deployment of the comprehensive solution.

Experience

SEO & Web Dev Internship – Universal Adventures — Mar 2025 – Jun 2025

- Optimized website content through keyword research, meta tag enhancements, and link-building strategies, improving search engine rankings by 15% during a 90-day remote internship.
- Implemented responsive design elements, successfully enhancing website functionality and ensuring compliance with company confidentiality policies, reporting daily to supervisors.

Achievements

- Google Girl Hackathon, 2024: Led ReactJS/ML solutions, competing against top teams across India.
- Forage Virtual Internship (Accenture), 2024: Leveraged data analytics to convert raw business data into actionable insights, designing comprehensive visual dashboards to inform strategic decision-making.
- GSSoC'24, May–Jul 2024: Resolved 10+ Machine Learning and Web Development issues remotely using Python, React, and MySQL; awarded the GSSoC Explorer Badge.

Extracurricular

- Orchestrated the Bit-by-Bit Club's Event Team, leading the successful delivery of multiple, engaging workshops for over 150 students, enhancing member engagement and skill development.
- Won 1st Prize in Poster Making Competition, showcasing creative design and visual storytelling skills.
- Secured 3rd Prize in CardioQuest, demonstrating health-tech innovation interest and knowledge.