PAYEL SINGH

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SUMMARY*

Motivated Computer Science core student at VIT Vellore, actively seeking internship opportunities to apply and expand skills in Front-End Development, Machine Learning, and Data Structures & Algorithms. Experienced in building responsive web applications and implementing ML solutions. Strong problem-solving mindset with a commitment to learning and contributing to real-world tech projects.

TECHNICAL SKILLS:
- Programming Languages: C++,Java
- Web Development : HTML , CSS , JavaScript , Bootstrap , Figma
- Database Management : MySQL
- Tools : Git , GitHub , Linux , Shell Scripting , StarUML
- Soft Skills : Effective Communication , Problem Solving , Adaptability , Team Collaboration
- Core Concepts : Data Structures and Algorithm , Object Oriented Programming , Operating Systems , DBMS

PROJECTS

[Krypto – NFT Marketplace UI design](#)
- **Designed** a visually immersive and modern landing page for an NFT marketplace, focusing on usability, branding .
- **Created** structured layouts featuring user testimonials, feature highlights, call-to-action buttons, and pricing t
- **Built** interactive components and design elements like testimonial sliders, analytics cards, and mobile CTA buttons using Figma's prototyping tools.
- **Applied** a futuristic color palette, custom icons, and clean typography to communicate trust, innovation.

[Budget Management Web App](#)
- **Designed** and developed a responsive web-based budget management tool during a hackathon to help users track expenses, set savings goals, and manage monthly budgets intuitively.
- **Implemented** interactive features such as dynamic expense tracking, real-time budget updates, and visual charts
- **Optimized** UI/UX through clean layout design, intuitive navigation, and mobile responsiveness, enhancing user engagement and accessibility across devices.
- **Collaborated** with a team under tight deadlines to prototype and deploy the app.

Hepatitis B Diagnosis Using Spider Monkey Optimization Algorithm
- **Implemented** a Machine Learning model utilizing the Spider Monkey Optimization (SMO) algorithm to accurately diagnose Hepatitis B using clinical and biochemical data.
- **Enhanced** feature selection and model convergence efficiency by integrating SMO with traditional classification algorithms, improving diagnostic accuracy over baseline models.
- **Analyzed** a medical dataset using data preprocessing, normalization, and feature scaling techniques to ensure model robustness and reliability.
- **Demonstrated** the model's effectiveness through cross-validation and ROC-AUC metrics, showcasing strong potential

LEADERSHIP EXPERIENCE AND CERTIFICATION

NCC (National Cadet Cops) B and C certification
[DSA using C++](#) (Data Structure and Algorithm)
[Generative AI](#) (Microsoft and LinkdIn)
[Leetcode](#) - Knight badge level (Top 5%)

EDUCATION & OTHER

Vellore Institute of Technology – UG (2022-2026)
Shri Shikshayatan School – 10th (2020)
Khalsa Model Senior Secondary School – 12th (2022)
LANGUAGES: English ,Hindi Bengali
INTERESTS: Basketball , Badminton