SHREYANSHU BANERJEE

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LinkedIn

Education

Bachelor of Technology, *Vellore Institute of Technology, Bhopal, MP*   **Expected May 2026**
Major in Computer Science & Engineering

Cumulative GPA: 8.49/10

Class XII (CBSE)   **Jul 2022**
G.N. National Public School, Gorakhpur, Uttar Pradesh
Percentage: 76.8%

Class X (CBSE)   **Mar 2020**
G.N. National Public School, Gorakhpur, Uttar Pradesh
Percentage: 86.4%

Technical Skills

Programming Languages: Python, C++, SQL, HTML, CSS

Technologies/Frameworks: GitHub, React, Pandas, NodeJS

Projects

AI-Powered Drug Research Platform
- Developed a drug research platform using Next.js 14, TypeScript, and Tailwind CSS for a responsive UI.
- Integrated NVIDIA AI models to enhance molecule generation and drug discovery with advanced predictive analytics.
- Enabled real-time collaboration with group messaging and research team management features for seamless teamwork.
- Implemented scalable architecture to support large datasets and multiple users.
- Conducted thorough testing to ensure reliability and performance under heavy loads.
- Achieved up to 25% faster molecule screening compared to baseline workflows.

Plant Disease Detection System
- Built a machine learning model for plant disease detection using Python and AI techniques with a focus on accuracy.
- Integrated image processing techniques to classify plant diseases, achieving a high precision rate in real-world testing.
- Deployed the model with an interactive UI using Flask, allowing farmers to upload images for instant diagnostics.
- Developed a robust error-handling system to improve user experience.
- Optimized the model for deployment on low-resource devices for wider accessibility.

Bharat Bazaar (An E-commerce Website)
- Engineered a production-ready e-commerce web app using Next.js, React, and TypeScript, featuring product discovery, filtering, and secure checkout.
- Integrated Google's Genkit for AI-driven product recommendations and semantic search.
- Built a responsive UI with ShadCN UI and Tailwind CSS, using React Hooks for state management.
- Leveraged Firebase for secure authentication and backend services.
- Developed multi-step checkout, order tracking, and user account features.
- Designed a modular codebase with reusable components to speed up feature development.
- Optimized page load time to under 2.5 seconds, improving user engagement.
- Implemented unit and integration tests to ensure 99% uptime and smooth user experience.

Certifications
- AWS Solutions Architect – Associate   2025
- MongoDB Admin Path   2025

Extracurricular

Activities: Active participant in cricket tournaments, Enthusiast in music and singing.
Languages: English, Hindi, Bengali