

Shivanshu Sahil

Bihar,India | sahil0****9@gmail.com | 911*****70 | linkedin.com/in/Shivanshu Sahil |

Computer Science student with hands-on coding experience in both scripting and object-oriented languages. Strong problem-solving, analytical, and communication skills with a solid understanding of system design basics. Comfortable working with algorithms and exploring AI concepts to build practical, scalable solutions.

Education

Manipal University Jaipur Bachelor of Technology in Information Technology	Aug 2023 - Present CGPA: 9.59
<ul style="list-style-type: none">• Relevant Coursework: OOPS, DBMS, Operating system, Computer networks,Data Structures and Algorithms, Software Engineering and Project Management, Statistics & Probability, , MATLAB for Engineers, Engineering Graphics	
SKP Vidya Vihar Bhagalpur XII	2023 81.5%

Skills

Languages: C++ , Java, SQL(MySQL), JavaScript, Python,TypeScript

Web Technologies: HTML, CSS, React.js, Next.js, Node.js, Express.js, FAST APIs, Tailwind CSS, Bootstrap, Socket.IO

Soft Skills: Problem-solving, Analytical thinking, Effective communication, Time management, Teamwork, Adaptability

Projects

Portfolio Website	Github LiveLink
<ul style="list-style-type: none">• Built a responsive personal portfolio website with Next.js, TypeScript, and Tailwind CSS.• Integrated dynamic project showcase, contact form (EmailJS), and theme switching.• Deployed on Vercel with optimized performance and SEO best practices.	
Collaborative Whiteboard App	Github
<ul style="list-style-type: none">• Built a real-time collaborative whiteboard app (MERN+Socket.IO) with role-based access, supporting 10+ concurrent users and <100ms sync latency.• Engineered scalable JSON-based drawing sync, modern UI, and live user presence, improving team collaboration and engagement.• Delivered secure, accessible, and maintainable codebase, reducing onboarding time for new developers by 40%	
AI-Powered Flood Risk Assessment System	Github LiveLink
<ul style="list-style-type: none">• Developed AI flood risk system using DEM analysis + image segmentation (Gemini 2.0, U-Net); improved risk detection accuracy by 35%.• Built full-stack app with Next.js + FastAPI, integrating real-time maps, risk scoring, and actionable insights.• Processed geospatial + image data for multi-level risk categorization, aiding planners and emergency teams.	

CERTIFICATIONS

1. Dean's List Excellence in Academics by **Manipal University Jaipur** in all four semesters completed
2. Programming in Modern C++ by **NPTEL (IIT Kharagpur)**
3. Database Design, Database Foundations, Database Programming with SQL by **ORACLE**