

SMARTH SOOD

ACADEMIC PROFILE									
Degree/Certificate		Institution					Percentage/CGPA		Year
IDD		Bio-Medical Engineering IIT (BHU), Varanasi					8.80		2027
Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Sem VII	Sem VIII	Sem IX	Sem X
6.85	9.20	9.28	9.55	8.85	9.43	-	-	-	-
ISC (XII)			Mount Carmel School Thakurdwara				95.75		2022
ICSE (X)			Mount Carmel School Thakurdwara				95.20		2020
SKILLS									
<ul style="list-style-type: none">• Programming Languages: C++, Java, Python, JavaScript/TypeScript, SQL• Web and Frameworks: Node.js, React.js, Next.js, TailwindCSS, HTML, CSS, PostgreSQL, MongoDB• DevOps: AWS (EC2, ECS, Lambda), Docker, Kubernetes, Digital Ocean, Monitoring (Prometheus, Grafana)• Interests: Web Development, Object Oriented Programming, Data Structures and Algorithms, Operating Systems									
INTERNSHIP/TRAINING									
Python Developer Gokul Infocare Pvt Ltd							March 2024 - June 2024		
<ul style="list-style-type: none">• Created interactive frontends and backends using Tkinter, Streamlit and Figma designs for company's operations.• Built an Image-to-MCQ Pipeline that automates document digitization and assessment creation.• Designed and implemented a Hospital Appointment System for efficient scheduling and management.• Developed optimized web scraping scripts to collect data from multiple external websites for internal analysis.									
PROJECTS									
Exalidraw - Real-Time Collaborative Drawing Platform									
<ul style="list-style-type: none">• Built a full-stack Drawing Application with real-time multi-user sessions featuring infinite canvas, zoom/pan, live sync, and export tools using WebSockets.• Secured API and WebSocket endpoints using JWT authentication, bcrypt-hashing and custom middleware for authorization.• Managed monorepo using Turborepo and pnpm, enabling shared types and unified database access. Tech Stack: Next.js, TypeScript, WebSocket, PostgreSQL, Prisma, Tailwind, Turborepo, pnpm, Zod, Canvas, AWS, Docker Links: • GitHub • Live Demo									
Invest IQ Financial Assistance App									
<ul style="list-style-type: none">• Developed a Financial Assistance platform with gamified modules, progress tracking, and reward-based quizzes.• Integrated OAuth, voice/text modules, news and multilingual support via Google Cloud APIs.• Built custom RAG-based portfolio and trend analyzers using Groq API, deployed on Hugging Face with Gradio and integrated a Chatbot to simplify financial concepts. Tech Stack: MERN, Tailwind CSS, Python, Google Cloud, Hugging Face, Groq, LLM Links: • GitHub • Live Demo									
Java Desktop Tools Suite – Smart Text Editor & Earthquake Visualizer									
<ul style="list-style-type: none">• Developed a Java-based text editor applet with real-time spellcheck, autocorrect, autocomplete and Flesch Index.• Built a modular Earthquake Monitoring applet with seismic map, city proximity and airport visualization. Tech Stack: Java, Java Applets, Swing, OOP, GeoJSON, DSA Links: • Text Editor • Earthquake Tracker									
PUBLICATIONS									
Research Paper on Computational NeuroScience in ISBS-RMBS 2024							October 2023 - April 2024		
<i>Diagnostic Classification of ASD Improves with Dynamic Functional Connectivity (FC) of fMRI Compared to Static FC</i>									
<ul style="list-style-type: none">• Conducted fMRI analysis on 112 subjects, distinguishing subjects with ASD from TD using sFC and dFC technique.• Applied advanced methods like MLP, XGBoost and LR and achieved 88.76% accuracy on FC and 96.65% on dFC.									
HONOURS AND ACHIEVEMENTS									
<ul style="list-style-type: none">• Specialist on Codeforces Maximum Rating : 1471 Highest Rank : 1111 in Codeforces Round 1034 Profile Link• Secured Platinum rank in Web Development Hackathon organized by Flipr.• Launched a personal portfolio website to showcase projects, achievements, and experience —SmarthSood.com• Joint Secretary of Aavaran for 2024-2025 and member of DUGC and DPGC committee.									

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