



Tanushri Barsainya

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B.Tech - Biosciences and Bioengineering

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	7.78 (Current)	2022-Present
Senior Secondary	CBSE Board	92.6%	2022
Secondary	CBSE Board	92.8%	2020

PROJECTS

- MedBuddy : AI-Powered Disease Prediction Platform** December 2024
Independent Software Project Github
 - Developed a machine learning-based web application that predicts diseases based on user-provided symptoms and offers tailored medications, precautions, and diet plans.
 - Implemented Flask for the backend and React.js for the frontend, ensuring seamless communication through REST APIs.
 - Engineered a multi-class classification ML model using Scikit-learn, Pandas, and NumPy, achieving 98% accuracy in disease detection.
- Scribbly : Real-Time Air Sketching Web App** June 2025
Independent Full-Stack Project Github
 - Developed a gesture-controlled sketching application using React.js, Flask, OpenCV, and MediaPipe for real-time hand tracking and drawing in the air via webcam.
 - Enabled dynamic brush size, different shapes and color selection, canvas clearing, and image saving functionalities.
 - Designed clear session handling, automatic camera shutoff, and intuitive home/drawing screens with smooth navigation.
- Kind Connect : Community Assistance Platform** July 2024
Independent Full-Stack Project Github
 - Designed and developed a community-driven platform that connects people seeking and offering assistance within their locality, using MERN stack (MongoDB, Express.js, React.js, Node.js).
 - Implemented JWT-based authentication to ensure secure user interactions and Bcrypt for password hashing.
 - Integrated MongoDB Atlas for a scalable and cloud-based database solution, ensuring seamless data storage.

TECHNICAL SKILLS

- Programming Languages & Concepts:** Python, C++, JavaScript, OOP, DSA, Design Patterns
- Web Development:** HTML, CSS, React.js, Tailwind CSS, Bootstrap, Node.js, Express.js, Flask, REST APIs
- Data Science & ML:** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, Feature Engineering
- Databases & Tools:** MongoDB, MySQL, Firebase, Git, GitHub, GitLab, VS Code, Postman, Socket.io, WebSockets

POSITIONS OF RESPONSIBILITY

- Web Coordinator, Student's Academic Board, IITG** April 2025 - Present
 - Led the maintenance and updates of the Academic Board and RIC (Research Industrial Conclave) websites, hosted on PythonAnywhere.
 - Coordinated a team and resolved conflicts to ensure smooth collaboration, content updates, and continuous improvement of both platforms.
- Game Developer, GameDev and Esports Club, IITG** June 2023 - April 2025
 - Led the development and deployment of 3+ game projects, optimizing UI and performance using Unity & C#.
 - Organized 5+ workshops on Game Development, Unity Engine, and GitHub, mentoring 100+ students.

RELEVANT COURSEWORK

- Pattern Recognition and Machine Learning** Jan 2025 - May 2025
 - Feature Engineering, ML Algorithms, Deep Learning, Probabilistic Models, and Ensemble Methods.
- Biological Data Analysis** Jan 2025 - May 2025
 - Descriptive statistics, Probability Distributions, Hypothesis Testing, PCA, and Data Visualization using R

EXTRACURRICULAR ACTIVITIES

- Contributed to 10+ open-source projects, implemented new features, fixed bugs, and improved documentation.
- Practiced 500+ DSA problems on platforms like LeetCode and GFG to strengthen problem-solving skills.