Sayantika Laskar

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📍 Agartala, India   🔗 https://www.linkedin.com/in/sayantika-laskar-098aa2250/

🔗 https://github.com/SayantikaLaskar

Education

B.Tech, VIT Bhopal University	Bhopal, India
Pursuing Computer Science and Engineering with current CGPA of 8.80	
High School, Hindi Higher Secondary School	Agartala, India
Scored 77.8% in 12th	
Holy Cross School, Agartala	Agartala, India
Scored 89.9% in 10th	

Projects

Real-Time Sign Language Recognition, Python, OpenCV, CNN, TensorFlow, Keras — 2025/01 – 2025/02
Real-time sign language detection system using CNN model trained on MNIST dataset, integrated OpenCV for live video feed processing, and implemented gesture classification for recognizing American Sign Language (ASL) symbols

HealthBot – AI-Powered Medical Chatbot, Python, LangChain, FAISS, OpenAI API, NLP — 2024/12 – 2025/01
AI-driven healthcare chatbot that utilizes LLMs for answering medical queries, processes medical literature for knowledge extraction, and incorporates memory management for contextual conversations

Face Emotion Detection System, Python, TensorFlow, Keras, OpenCV, Streamlit, FER-2013 Dataset
Deep learning-based facial emotion detection system to classify emotions from facial expressions with 98% accuracy, utilizing a trained CNN model on the FER-2013 dataset

Extracurricular

GDSC Club, VIT Bhopal, Machine Learning Team Core Member — 2024/01 – present
Conducted and organized an event with around 80 participants and contributed in open-source projects

Fine Arts Club, VIT Bhopal, Social Media and PR and Outreach Team Core Member — 2022/11 – present
Managed 5 events with approx. 100 participants(each) to enhance communication, management, team work skills

GSSoC,24 Contributor — 2024/05 – 2024/08
Contributed to issues relating to Machine Learning and Deep Learning with 12 merged pull requests and 660 points

Data Structures And Algorithms
Solved 658 problems in Leetcode, 479 in GFG(hash maps, stacks, queue, arrays, strings, sorting,linked lists) and 50 in HackerRank using Java and C++

Skills

Java, Python, C++, Machine Learning, Deep Learning, Github, Computer Network, Computer Vision, API Integration, Streamlit

Certificates

- Problem Solver DSA by FacePrep
- Blockchain Developers and Fundamentals

Publications & Conferences

International Conference on Data Computation and Communication, 2024 — 2024/11 – 2024/11
Presented 2 papers on heart disease prediction using Machine Learning and climate change using ARIMA — Bhopal, India

Mitigating Climate Change: Utilizing Global Warming Through ARIMA Modelling — 2025/04
Explored the application of ARIMA time series modeling to analyze global temperature rise patterns and forecast future climate trends. — Sehore, India
DOI: 10.1109/ICDCC62744.2024.10960961 ↗

Achievements

Microsoft Code Without Barriers – India Circle 2025, Mentee — 2025/04 – present
Selected for Microsoft's mentorship program empowering women in tech through AI, cloud, and leadership training

Health Hackathon Participant — 2024/12 – 2025/02
Participated at VIT Bhopal University in collaboration with John Hopkins University and was among the top selected 236 teams — Bhopal, India

Finalist at Young Leaders Viksit Bharat Program (Ministry of Sports and Youth Affairs) — 2025/01 – 2025/01
Selected from 3 million participants after excelling in quiz, essay (*"Tech for Viksit Bharat"*), state-level pitch, and national presentations at Bharat Mandapam, showcasing tech-driven solutions for India's development. — Delhi, India