

Sayantika Laskar

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 https://github.com/SayantikaLaskar	

Education

B.Tech , VIT Bhopal University Computer Science and Engineering, specialization in Health Informatics with current CGPA of 8.66	Bhopal, India
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Skills

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

Projects

Face Emotion Detection System , Python, TensorFlow, OpenCV, Streamlit, FER-2013 Dataset • Achieved 98% accuracy using a CNN trained on FER-2013 for real-time facial emotion detection via webcam and image inputs. • Deployed the model via a Streamlit-based web interface with integrated OpenCV for interactive testing.	Mar, 2025 – Apr, 2025
Sign Language Recognition , Python, OpenCV, CNN, TensorFlow, Keras • Built a real-time ASL recognition system using a CNN model trained on MNIST and OpenCV for gesture input processing. • Developed a gesture classification pipeline mapping live webcam gestures to ASL symbols.	Jan, 2025 – Feb, 2025
HealthBot – AI-Powered Medical Chatbot , Python, LangChain, FAISS, OpenAI API, NLP • Developed a retrieval-based medical chatbot using LLMs, LangChain, and FAISS for real-time question answering based on medical literature. • Integrated memory and session handling to enable contextual, multi-turn conversations.	Dec, 2024 – Jan, 2025

Internships

Akai Space , Data Labeler and AI Developer Contributing to AI model development by labeling datasets, testing model outputs, and supporting data-centric ML workflows in a hybrid work environment	Jul, 2025 Remote
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Achievements

Raman Research Award 2025 Awarded for Scopus-indexed research paper on climate change modeling using ARIMA, published in IEEE Xplore.	Jul, 2025 Bhopal, India
Microsoft Code Without Barriers – India Circle 2025 , Mentee Selected for Microsoft’s mentorship program empowering women in tech through AI, cloud, and leadership training	Apr, 2025 Remote
Health Hackathon Participant Participated at VIT Bhopal University in collaboration with John Hopkins University and was among the top selected 236 teams	Feb, 2025 Bhopal, India
Finalist at Young Leaders Viksit Bharat Program (Ministry of Sports and Youth Affairs) Finalist 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.	Jan, 2025 Delhi, India

Certificates

- Problem Solver DSA by FacePrep


Co-curricular

Data Structure and Algorithm 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++
GSSoC '24 , Contributor Contributed to issues relating to Machine Learning and Deep Learning with 12 merged pull requests and 660 points

Extracurricular

GDSC Club, VIT Bhopal , Machine Learning Team Core Member 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 Managed 5 events with approx. 100 participants(each) to enhance communication, management, team work skills

Publications & Conferences

International Conference on Data Computation and Communication, 2024 Presented 2 papers on heart disease prediction using Machine Learning and climate change using ARIMA	Nov, 2024 – Nov, 2024 Bhopal, India
Mitigating Climate Change: Utilizing Global Warming Through ARIMA Modelling Explored the application of ARIMA time series modeling to analyze global temperature rise patterns and forecast future climate trends. DOI: 10.1109/ICDCC62744.2024.10960961 	Apr, 2025 Sehore, India