


Sayantika Laskar

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Education

B.Tech, VIT Bhopal University
Computer Science and Engineering, specialization in Health Informatics with current CGPA of 8.68

Bhopal, India

Skills

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

Projects

- Face Emotion Detection System,** Mar, 2025 – Apr, 2025
Python, TensorFlow, OpenCV, Streamlit, FER-2013 Dataset
 - Designed and trained a CNN on the FER-2013 dataset, achieving 98% classification accuracy across seven emotion categories.
 - Integrated the trained model with OpenCV to enable real-time webcam-based facial emotion recognition as well as image uploads for testing.
 - Deployed the system using Streamlit, providing an interactive interface where users could test live detection and visualize predictions in an accessible way.
- Sign Language Recognition,** Python, OpenCV, CNN, TensorFlow, Keras Jan, 2025 – Feb, 2025
 - A CNN-based model capable of recognizing and classifying American Sign Language (ASL) hand gestures in real time using webcam input.
 - Built a gesture preprocessing pipeline with OpenCV to detect, segment, and normalize hand gestures.
 - Implemented a mapping system to convert detected gestures into ASL symbols, creating a foundation for a communication aid between signers and non-signers.
- HealthBot – AI-Powered Medical Chatbot,** Python, LangChain, FAISS, OpenAI API, NLP Dec, 2024 – Jan, 2025
 - Developed a retrieval-based medical chatbot using LLMs, LangChain, and FAISS for real-time question answering based on medical literature.
 - Implemented memory and context management to enable multi-turn conversations, ensuring the chatbot could recall previous interactions for improved accuracy.
 - Integrated the system with the OpenAI API for natural language understanding, making the chatbot capable of providing clear, human-like responses to users in real time.

Internships

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

Achievements

- Raman Research Award 2025** Jul, 2025 | Bhopal, India
Awarded for Scopus-indexed research paper on climate change modeling using ARIMA, published in IEEE Xplore.
- Flipkart Grid 7.0,** Semi-Finalists Jul, 2025 – Aug, 2025 | Remote
Recognized among top participants in Flipkart’s national-level competition
- Health Hackathon Participant** Feb, 2025 | Bhopal, India
Participated at VIT Bhopal University in collaboration with John Hopkins University and was among the top selected 236 teams
- Young Leaders Viksit Bharat Program(Ministry of Sports and Youth Affairs)** Jan, 2025 | Delhi, India
Finalist after excelling in quiz, essay ("Tech for Viksit Bharat"), state-level pitch, and national presentations at Bharat Mandapam.

Co-curricular

- Data Structure and Algorithm**
Solved 810 problems in Leetcode, 570 in GFG(hash maps, stacks, queue, arrays, strings, sorting,linked lists), 50 in HackerRank using Java and C++, and codeforces ranking of 781
- 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** Nov, 2024 – Nov, 2024 | Bhopal, India
Presented 2 papers on heart disease prediction using Machine Learning and climate change using ARIMA
- Timestamp Extraction and Log Classification Using Supervised Machine Learning: A Comparative Study,** Jun, 2025 | Faridabad, India
Journal of Software Engineering Tools & Technology Trends (JoSETTT)
- Mitigating Climate Change: Utilizing Global Warming Through ARIMA Modelling** Apr, 2025 | Sehare, India
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