Sneha Sarkar

snehasarkar2022@vitbhopal.ac.in 9609494186 LinkedIn GitHub LeetCode

Education

VIT Bhopal University Aug 2022-present
BTech in CSE (AIML) ***cgpa-8.76***

PM Shree Kendriya Vidyalaya Berhampore, WB May-2022
Class XII ***69.9%***

PM Shree Kendriya Vidyalaya Berhampore, WB May-2020
Class X ***79.5%***

Skills

Languages: Python, C++, Java, SQL, HTML,CSS

Frameworks: OpenCV, NumPy, pandas, matplotlib, seaborn, plotly, scikit-learn, TensorFlow, Keras, PyTorch, NLTK, Gensim, Computer Vision, NLP, ANN, Deep Learning, Data Science, Machine Learning, Data Structures and Algorithms (DSA), Computer Networks (CN)

Tools: Excel, Git, AWS

Professional: Japanese Speaking, English Speaking, Agile Learning Mindset, Strong Problem-Solving Skills.

Experience

TEACHNOOK ROBOTICS Feb 2023 -May 2023
Robotics Intern *Remote*

- Designed and simulated robotic body parts (e.g., robotic hand, leg) using TinkerCad
- Worked with electronic components like AC motors, traffic lights, sensors, and switches
- Learned the functions and applications of various electrical and electronic devices used in robotics
- Participated in hands-on robotics sessions covering circuit design and simulation

Projects

Cancer Detection System

(GitHub)

- A machine learning-based application designed to assist in early detection of cancer (e.g., breast, lung, or skin cancer) using medical imaging and diagnostic data. The system preprocesses patient data, extracts critical features, and applies trained models to classify whether a sample is malignant or benign.
- Technologies Used: Python, NumPy, pandas, scikit-learn, TensorFlow, Keras, OpenCV, Matplotlib, Seaborn, Computer Vision, Deep Learning, Machine Learning, NLP (for medical report analysis)

Image Classification System

(GitHub)

- A deep learning project that classifies images of animals into two categories: dogs and cats. The system uses a Convolutional Neural Network (CNN) trained on a large dataset of labeled dog and cat images. It processes input images through layers of feature extraction to learn patterns unique to each animal, achieving high accuracy in real-world image predictions.
- Technologies Used: Python, TensorFlow, Keras, OpenCV, NumPy, pandas, Matplotlib, Seaborn, Deep Learning, CNN, Computer Vision

AI-Powered Chatbot

(GitHub)

- A conversational chatbot built to simulate human-like interactions, capable of answering queries, handling FAQs, and providing personalized responses. It uses Natural Language Processing (NLP) techniques to understand user input and generate meaningful replies. The system can be integrated into websites or applications for customer support or personal assistant functionalities.
- Technologies Used: Python, NLTK, Gensim, TensorFlow, Keras, Flask (for deployment), NLP, Deep Learning, Machine Learning

Certifications & Achievements

- solved 350+ questions on Leetcode & other platforms
- 200+days of continous streak on leetcode
- AWS Cloud Practitioner