SUJIT LAYEK

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SUMMARY

Ambitious Electronics and Communication Engineering student at JIS College of Engineering with a CGPA of 8.80. Completed numerous certifications and virtual internships in areas such as AI, IoT, and web development. Contributed to several impactful projects and published a research paper on image processing. Proficient in programming, holding 5-star badges in Problem Solving and Python on HackerRank.

EDUCATION

B.Tech in ECE, JIS College of Engineering, MAKAUT — Expected 2025
CGPA: 8.80

12th, Bankura Goenka Vidyayatan, WBCHSE — 2020
Marks: 90.2%

10th, Asanbani Kajalkura SM High School, WBBSE — 2018
Marks: 81%

SKILLS

Programming Language	Python
Database	SQL
Web	HTML, CSS, Flask

PROJECTS

CRUD

SeekAndSolve is a community-driven platform that fosters knowledge sharing and social engagement. Building with PHP and SQL, it offers a range of features from QnA discussions to user interactions, making it a one-stop solution for curiosity seekers and problem solvers alike.

ML

Swasthya Bandhu is a Python-based diseases predictor tool and chatbot designed to provide users with information about various diseases, symptoms, and precautions. It leverages natural language processing (NLP) technique(NLTK) for chat interaction and machine learning for disease prediction. Used Tech Stack:HTML, CSS, Python, Flask, Random Forest Classifier, NLTK. (GitHub)

Image Processing / Deep Learning

Soil Classification and Crop Recommendation System Developed a CNN-based system for classifying soil types from images and recommending suitable crops based on soil type and season. Implemented a Flask web application for user interaction, achieving an accuracy of 87.15% in soil classification. This project aids farmers in making informed crop selection decisions, enhancing agricultural productivity. Used Tech Stack:HTML, CSS, Python, Flask, tensorflow.keras.models, tensorflow.keras.layers . (GitHub)

Compression of Color Image Using Butterworth Low Pass Filtering Developed a novel method for color image filtering using Butterworth Low Pass Filtering (LPF), applied separately to Red, Green, and Blue planes of an image. This technique, implemented in MATLAB, optimizes storage and bandwidth by eliminating unnecessary high-frequency components, with quality assessed via the PSNR method. The system is effective for all image types. (Research Paper Link)

ACHIEVEMENTS

- Research paper published in IJSREM. (Research Paper Link)
- Earned Elite+Silver Certificate from NPTEL(IIT-Kanpur) for Introduction to Programming In C. (View Here)