Saumya Dwivedi

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Technical Skills

Programming Languages: Python, C++, SQL, MATLAB, JAVA, JavaScript, HTML/CSS

Frameworks and Libraries: flask, React, Express.js, TensorFlow, PyTorch

Libraries & Tools: OpenCV, Git,Github

Projects

HealthEase: Connecting Lives with Care | Link | *React, Node.js, Express.js, MongoDB, Socket.io* August 2024
Web Development

- Developed HealthEase, a healthcare platform that streamlines access to medical services through centralized doctor and hospital information, multilingual support, symptom checking, and emergency ambulance or home-care booking.
- Designed and implemented hospital/doctor search, real-time queue management, secure authentication, and an AI-based chatbot supporting symptom guidance, appointment queries, and patient assistance.
- Collaborated with a team of 5 and contributed to database design, frontend development, and system architecture to ensure a seamless and reliable user experience.
- Github repository: github.com/ianshsingh10/Health-Ease

PlantCare: Real time Plant Disease Detection system | Link | *Python, PyTorch, Flask, OpenCV* April 2025
Deep Learning

- Developed PlantCare, a deep learning–based real-time plant disease detection system capable of classifying leaf images into 39 disease categories using a custom convolutional neural network trained on the PlantVillage dataset.
- Built and optimized the end-to-end ML pipeline—from data preprocessing and augmentation to model training, evaluation, and quantization—resulting in a lightweight model deployable through a user-friendly web interface for instant diagnosis.
- Integration of the AI engine with the Flask-based web application to deliver accurate and accessible plant health insights for farmers and agricultural users.
- Github repository: github.com/saumyadwiv/PlantCare

Experience

Generative AI Intern — May 2025 – June 2025
SmartBridge — *Remote*

- Developed an AI Image Captioning App using Streamlit and Google Gemini Pro Vision API to automatically generate captions for uploaded images.
- Implemented client–server architecture, integrated Generative AI APIs, and optimized caption quality through prompt engineering and error handling.
- Utilized Python, Pillow, and dotenv for data handling, environment configuration, and real-time caption generation.

Education

VIT Bhopal University — September 2023 - Present
Bachelor of Technology in Computer Science — *Bhopal, Madhya Pradesh*

The Jain International School — April 2022- March 2023
Intermediate (Senior Secondary)(86.4) — *Central board of Secondary Education*

Ryan International School — April 2020- March 2021
Matriculation (Secondary)(96.66) — *Central board of Secondary Education*

Certifications

• DP900: Microsoft Azure Data Fundamentals

• The Bits and Bytes of Computer Networking by Google

• NPTEL: Introduction to Machine Learning