Aryan Gupta

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Profile

A dedicated Computer Science graduate with a strong foundation in programming and a keen interest in Artificial Intelligence. Proven experience in developing machine learning models and implementing innovative solutions. Proficient in C++, Python, and SQL, with hands-on experience in building custom AI models and web applications.

Skills

Python | C++ | Problem Solving | Machine Learning | Deep Learning | Computer Vision | Streamlit | Scikit-learn, Tensorflow | Keras | JavaScript | React.js | Express.js | MongoDB | SQL | Git

Work History

Summer Internship, *Mern Stack Web Development* 2021/06 – 2021/07

- During this Internship, I had the opportunity to learn **MERN STACK WEB** Development and did a project to enhance my learning.
- Developed a comprehensive understanding of the MERN stack **(MongoDB, Express.js, React, Node.js)**, enabling me to create dynamic, responsive, and scalable web applications from scratch.
- Developed a full-stack web application featuring user authentication, **CRUD** operations, and **RESTful API** integration, showcasing the practical application of MERN stack concepts.

Projects

Waste Classficition and Management System 2024/01 – 2024/03

- Developed an AI-based waste management system using TensorFlow to classify and detect different waste materials, achieving **90% accuracy** through a custom Convolutional Neural Network (CNN) model trained on 20,000 litter images.
- Implemented real-time object detection for waste materials using transfer learning, resulting in 80% accuracy, and integrated the model into a web application.
- Built and deployed a web application using Streamlit for waste classification, detection, and user-reported waste issues. Technologies used: **TensorFlow, Transfer Learning, NumPy, and Object Detection API.**

Plant Disease Detection 2023/03 – 2023/05

- **Created an AI-driven web interface** for easy upload and classification of plant leaf images using a custom-trained model.
- **Achieved over 98% accuracy** by training a CNN model on 20,638 plant leaf images, both healthy and diseased.
- **Utilized TensorFlow, Keras, NumPy, and Streamlit** for robust implementation, efficient processing, and a smooth user experience.

Slipper Store 2022/11 – 2022/12

- Built an e-commerce site where users can browse various branded shoes, filter them, save items to their cart, and log in to manage their shopping experience.
- The website was developed using the **MERN** stack, with the backend built using **Express.js** and **Node.js**, and the frontend developed using **React.js** to create a robust and modern application.
- The website uses **MongoDB** for efficient storage and retrieval of product data, allowing for dynamic updates and quick access to real-time information to enhance the user experience.

Education

Computer Science Engineering, 2019/07 – 2023/06
Lovely Professional University (*CGPA - 8.59/10*) Phagwara, Punjab, India