# Aryan Gupta

✉ aryangupta4279@gmail.com  📞 +91 8115681331  📍 India  ⓞ github.com/aryan098-max

in linkedin.com/in/aryan-gupta02  🔗 https://aryanportfolio98.netlify.app/

## 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*　　　　　　　　　　　　　　2021/05 – 2021/08
- 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 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
- The website uses a full-stack approach with HTML, CSS, JavaScript, **Node.js, and Express.js**, ensuring a robust and modern application.
- Powered by **Express.js and JavaScript**, the website offers a responsive interface for easy camp browsing and real-time booking.
- The website leverages **MongoDB** for seamless storage and retrieval of camp data, enabling dynamic updates and ensuring quick access to real-time information for a personalized user experience.

## Education

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