







# Aryan Gupta

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## Profile

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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

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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

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**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

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**Waste Classification 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 ecommerce 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 is built using a full-stack approach, incorporating HTML, CSS, JavaScript, **Express.js**, and **Node.js** to deliver 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

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