(+91) 6005274959



in Vardaan Bajaj

Grind-VB

Objective

Aspiring developer and researcher passionate about crafting scalable web solutions and innovating with AI/ML to solve real-world problems.

Education

• IIIT Naya Raipur

Nov 2022 - Aug 2026

B.Tech in Data Science and Artificial Intelligence

Related Coursework

• Deep Learning • Computer Vision • Natural Language Processing • Reinforcement Learning • Linear Algebra • Time Series Analysis • Data Mining • Calculus

Experience

• Agrytech Solutions / AI Intern

May 2024 - Present

Developed an AI pipeline to detect crop health from satellite images. Fine-tuned deep learning models for segmentation and classification, achieving improved model accuracy by 17%. Conducted real-time deployment tests using Flask and FastAPI.

• Mahyco / Web Development Intern

Aug 2024 - Dec 2024

Built a scalable system for crop yield estimation using aerial drone imagery. Integrated computer vision techniques (YOLO, image segmentation) to address visual occlusions, enabling accurate prediction and informed decision-making in precision agriculture.

Projects

Hostel Management Website

- Architected a MongoDB-based backend system for efficient hostel data management.
- Built an intuitive and responsive frontend using ReactJS.
- Optimized Node.js backend for real-time data handling and validation.

Crop Detection App

- Designed a lightweight, high-speed crop detection tool using YOLOv5.
- Integrated dynamic image cropping based on user input for enhanced accuracy of 93%.

OOP-Based Web Page Linker

- Engineered an efficient platform using OOP concepts to aggregate multiple web tools into a unified interface.
- Implemented REST API integration and session management for seamless multi-service access.
- Leveraged Scipy and Numpy for efficient data handling and improved performance would be upto 90%.

Publications

• An Enhanced Object-Oriented Programming-Based Web Page Linker, IEEE IATMSI 2024

Technical Skills

Languages: Python, JavaScript, C/C++, SQL

Web Technologies: ReactJS, Node.js, MongoDB, Flask, FastAPI, REST APIs, HTML/CSS, TailwindCSS

AI/ML Libraries: TensorFlow, PyTorch, Keras, OpenCV, NLTK, Scikit-learn, XGBoost

Specializations: Computer Vision, NLP, Reinforcement Learning, Model Optimization, Data Pipelines

Developer Tools: VS Code, Google Colab, Jupyter, Git/GitHub, LaTeX, Anaconda, Postman