

Vaibhav Singh

Contact no- +91-9773627278 · Email- vaibhavsinghr01@gmail.com · Faridabad, Haryana -121003
LinkedIn- <https://www.linkedin.com/in/vaibhav-singh-3b75a1293/> · Github - <https://github.com/thevaibhavsinghrathore>

Summary:

I am a Computer Science undergraduate with a strong foundation in Machine Learning, Computer Vision, and Full-stack Development. Experienced in building data-driven software systems through research internships and hands-on projects. Seeking a 2-month summer internship for the period of June – August 2026 to apply technical expertise in Python and AI-driven development to enterprise-level projects.

Experience:

Research Intern | ICAR-IASRI (Indian Council of Agricultural Research – Indian Agricultural Statistics Research Institute)

New Delhi | Jul 2025 – Aug 2025

- Built a computer vision-based system to estimate leaf count from plant images for agricultural phenotyping.
- Trained and evaluated machine learning models and integrated results into a web-based application.

Machine Learning Intern (Virtual Internship 6.0) – Infosys Springboard

Remote | Sep 2025 – Nov 2025

- Developed a deep learning-based image classification system using Python.
 - Implemented data preprocessing, model training, and performance evaluation workflows.
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Education:

Bachelor of Technology (B.Tech) – Computer Science Engineering

Guru Jambheshwar University of Science & Technology, Hisar

Expected Graduation: June 2027

CGPA: 7.01 / 10

Technical Skills:

- **Programming languages:** Python, C/C++, HTML, CSS
 - **Data analysis libraries:** Numpy, Pandas, Matplotlib, Scikit-learn, Convolutional Neural Networks (CNN).
 - **Tools and Database:** Git, GitHub, MySQL and SQLite
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Projects:

Leaf Count Estimation for Plant Phenotyping

- Engineered an automated CV pipeline using Python and OpenCV that achieved 92% accuracy, reducing manual phenotyping time by 70%.
- Integrated ML models into a web application to streamline data analysis for high-resolution agricultural datasets.

Dog Breed Classification System

- Architected a CNN-based deep learning model to categorize 120+ dog breeds, improving training efficiency by 25% through optimized preprocessing.
 - Implemented robust performance evaluation workflows using Python-based libraries to ensure high model reliability across diverse test sets.
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Certifications:

- Artificial Intelligence Primer Certification - **Infosys Springboard**
- Principles of Generative AI Certification - **Infosys Springboard**