

VISHWAJEET SINGH

Roorkee, Uttarakhand

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Education

Graphic Era Hill University <i>Bachelor of Technology - CSE</i>	Sep. 2022 – June 2026 Dehradun, Uttarakhand
Sheffield International School <i>12th PCM</i>	March 2021 – March 2022 Roorkee, Uttarakhand
Shemford School <i>10th</i>	March 2019 – March 2020 Roorkee, Uttarakhand

Technical Skills

- Languages:** C, C++, Python, Java, HTML, CSS, JavaScript, PHP
Developer Tools: Git, GitHub, WordPress, Jupyter, Flask, Tkinter, QEMU, NASM, GCC
Database/Frameworks: Node.js, Express.js, MongoDB, MySQL
Machine Learning: TensorFlow, Scikit-learn, Natural Language Processing
Operating Systems: Windows, macOS, Linux

Projects

Mini Operating System <i>C++, Assembly</i>	June 2025
<ul style="list-style-type: none">Engineered a custom 32-bit operating system in C and x86 Assembly, developing a robust bootloader, efficient memory management unit, and preemptive process scheduler.Utilized NASM, GCC, and QEMU to implement foundational OS components, demonstrating deep understanding of low-level system design.	
Python Code Editor <i>Python, Compiler</i>	June 2025
<ul style="list-style-type: none">Developed a feature-rich GUI Python Code Editor using Tkinter, implementing real-time syntax highlighting, direct code execution, and customizable dark/light themes.Integrated comprehensive error handling to enhance developer productivity and user experience.	
News Chatbot <i>Machine Learning</i>	January 2024
<ul style="list-style-type: none">Designed and implemented a real-time AI News Chatbot leveraging Python, TensorFlow, and Natural Language Processing (NLP) for dynamic content retrieval.Built with Flask to provide efficient API integration and seamless deployment, delivering instant news updates to users.	
Dublin Travel Website <i>Full stack</i>	April 2024
<ul style="list-style-type: none">Constructed a dynamic travel guide website for Dublin using HTML, CSS, JavaScript, Node.js, and MongoDB.Enabled seamless user interaction and efficient data management for itinerary planning and destination exploration.	
Crop Prediction Model <i>Machine Learning</i>	December 2023
<ul style="list-style-type: none">Developed a Machine Learning (ML) model in Python using Scikit-learn to predict optimal crop yields based on soil and weather data.Achieved significant accuracy in agricultural recommendations, providing data-driven insights for farmers.	

Relevant Coursework

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|-----------------------|---------------------------|---------------------|
| • Data Structures | • Artificial Intelligence | • Automata |
| • Database Management | • Machine Learning | • Operating Systems |

Leadership / Extracurricular

NSS Cleanliness Drive

Volunteer

Graphic Era Hill University

- Demonstrated commitment to community service and teamwork.

Resourceful Travel Planner

Planner

- Successfully managed logistics and budgets for independent travel, highlighting planning and problem-solving abilities.