

VISHWAJEET SINGH

Roorkee, Uttarakhand

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Education

Graphic Era Hill University

Bachelor of Technology - CSE

Sep. 2022 – June 2026

Dehradun, Uttarakhand

Sheffield International School

12th PCM

March 2021 – March 2022

Roorkee, Uttarakhand

Shemford School

10th

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 | *C++, Assembly*

June 2025

- 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 | *Python, Compiler*

June 2025

- 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 | *Machine Learning*

January 2024

- 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 | *Full stack*

April 2024

- 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 | *Machine Learning*

December 2023

- 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.