

# PRADEEP SINGH

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## EDUCATION

Examination	Institute	Year	GPA/Marks
B.Tech(CSE)	Graphic Era Hill University Dehradun	2022 - Present	8.23/10.0
XII	V. V. M. I. C. Champawat	2020	82.00 %
X	V. V. M. I. C. Champawat	2018	82.00 %

## PROJECTS

VHerbs (Feb 2025 - Apr 2025) [Live](#) | [GitHub](#) (Node.JS, Express.JS, React.JS, MongoDB, Three.JS, TailwindCSS)

- Developed a web platform showcasing **50+ medicinal plants** with detailed botanical data, use cases, and cultivation methods.
- Integrated **3D models** for all plants, enabling **360° rotation, zoom**, and immersive interaction.
- Embedded a **Gemini-powered chatbot**, achieving **over 90% user query resolution** in under **3 seconds**.

StudyNotion (Nov 2024 - Jan 2025) [Live](#) | [GitHub](#) (Node.JS, Express.JS, React.JS, MongoDB, TailwindCSS)

- Built a **full-stack EdTech platform** using the **MERN stack**, enabling users to create, sell, and purchase educational content.
- Implemented **secure login** with **JWT and RBAC**, reducing **unauthorized access attempts by 100%**.
- Integrated **Razorpay** for payments, maintaining a **less than 1% transaction failure rate**.

CPU-Scheduling-Simulator (Oct 2024) [Video](#) | [GitHub](#) (Python, Tkinter, Pillow)

- Created an **interactive CPU Scheduling Simulator**, enhancing learning effectiveness by **over 60%** through real-time algorithm visualization.
- Developed and integrated **6+ CPU scheduling algorithms** including FCFS, SJF, SRTF, etc.
- Designed a **graphical user interface (GUI)** using **Tkinter** and enhanced visualization with **Pillow**.

GreenThumbWeather (Dec 2023) [Live](#) | [GitHub](#) (HTML, CSS, JavaScript)

- Built an **API-integrated platform** that provides **real-time weather forecasts, agricultural news, and query support** using **weather, news, and Wikipedia APIs**.
- Utilized **OpenWeather, News, and Wikipedia APIs** to deliver real-time insights, **reducing user search time for agricultural data by over 40%**.
- Designed a **seamless UI** for desktop and mobile, ensuring **100% cross-device compatibility**.

## TECHNICAL SKILLS

**Languages:** C, C++, JavaScript, Python

**Backend:** Node.JS, Express.JS, REST APIs

**Frontend:** React.JS, Three.JS, TailwindCSS, HTML, CSS, Bootstrap

**Databases:** MongoDB, MySQL

**Developer Tools:** Postman, VS Code, Git, GitHub

## CERTIFICATIONS

- MERN Stack Web Development Bootcamp – CodeHelp (Jun 2024 - Nov 2024) [Certificate](#)
- Google Cloud Computing Foundation – NPTEL (Jul 2023 - Oct 2023) [Certificate](#)

## RELEVANT COURSEWORK

- Data Structures
- Algorithms
- Operating Systems
- Database Management Systems

## ALGORITHMIC ACHIEVEMENTS

- Achieved a ranking of **2,280 out of 35,000+** participants in LeetCode Weekly Contest 401. [Link](#)
- Achieved a **rating of 1,700** on LeetCode, placing in the **top 12%** of users. [Link](#)
- solved **800+ algorithmic problems** across multiple coding platforms.