

Nidhi Kumari

Full Stack Developer | B.Tech. CSE | HNBGU(A Central University)

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WORK EXPERIENCE

CSIR - Central Scientific Instrument Organisation

Software Development Intern

- Developed a **responsive web application** using python (with the help of Generative AI and prompt coding) improving the scientific user experience and intuitive.
- Collaborated with a team of 2 and a scientist to make the integration of scientific experiment and visualization through software easier.

EDUCATION

Hemvati Nandan Bahuguna Garhwal University (A Central University) - 2022-2026

B.Tech. - Current CGPA: 7.16/10 [3rd Year]

PROJECTS

RiceVue: Smart Moisture Prediction for Rice Storage

- It is an RF-based machine learning model to predict rice moisture content from Vector Network Analyzer (VNA) S-parameter data.
- Applied the Nicolson–Ross–Weir (NRW) method to extract complex permittivity for input features.
- Utilized **Generative AI tools** to design, debug, and optimize the Python ML pipeline (Random Forest, data preprocessing, and visualization).
- Demonstrated end-to-end workflow — from raw VNA data processing to model evaluation and UI deployment.

CourseConstructor: An AI-based course generator

- It is a full-stack web application using **Next.js**, **React**, and **JavaScript** that generates structured courses dynamically based on custom user input.
- Integrated **Generative AI** APIs to automate course content creation with adaptive topic generation and HTML-formatted outputs.
- Implemented secure **Clerk authentication** with two-factor verification, dynamic routing, and seamless sign-in/sign-up flows.
- Built reusable UI components and modular folder architecture for scalability, ensuring responsive design and efficient backend API communication.

SKILLS

- **Languages:** Javascript, C++, C, Html, CSS.
- **Tools:** VS Code, Git, GitHub, Postman, Canva, Generative AI Tools(ChatGPT, Perplexity, etc.)
- **Databases:** SQL, NoSQL.
- **Backend & Architecture:** Node.js, Express.js, MVC Architecture, RESTful APIs, API Integration.

ACHIEVEMENTS

- **Awards:** Finalist in Smart India Hackathon - 2024