



**Deepak**  
UG (II Year II Semester)  
B.Tech. (Mechanical Engineering)  
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Registration No: 23117044/2025



Area of Interest

Coding, Data Science, Travelling and Music

Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2024	B.Tech. 2nd Year	Indian Institute of Technology, Roorkee	6.881

Internships

**Software Engineer** | Absolute Dimension Pvt. Ltd. June 2024 - September 2024

- Developed and optimized web and mobile apps for performance, scalability, and deployment.
- Gained experience in DevOps, web/app development, and AI/ML for quality solutions.
- Enhanced user experience through efficient coding, testing, and deployment.

**Application Development** | Region Infinity Pvt. Ltd. November 2024 - February 2025

- Mentored by Prof. Vishal Vaibhav, IIT Delhi, in developing a mathematics learning app.
- Developed frontend and backend for seamless experience and robust performance.
- Designed and managed the admin panel for content, access, and system control.

Projects

**RAG Model with Interactive UI** | Absolute Dimension Pvt. Ltd. June 2024

- Implemented a RAG model for accurate, fact-based responses by combining retrieval and generation.
- Improved response accuracy using real-time external knowledge for user queries.
- Designed an interactive UI for seamless question-answer interactions.

**Enquiry-Based Learning App for IIT JEE Mathematics** | Region Infinity Pvt. Ltd. November 2024 - February 2025

- Guided by Prof. Vishal Vaibhav, IIT Delhi, in developing an interactive mathematics learning platform.
- Built frontend and backend for a responsive, intuitive, and high-performance experience.
- Developed an admin panel for efficient content management, access control, and system configuration.

**Skin Disease Prediction with Chatbot** | Syntax Error Hackathon by SDS Labs, IIT Roorkee October 2024

- Developed a deep learning model for predicting skin diseases through advanced image analysis.
- Integrated the model into a web platform, enabling users to receive instant disease predictions with a seamless interface.
- Implemented an AI-powered chatbot, built on the LLaMA model, to provide assistance related to skin diseases.

**NutriBot AI-Powered Personalized Nutrition Chatbot** | Personal Project March 2025

- Built a conversational AI using Rasa 3.6.21 to deliver personalized meal recommendations based on user preferences.
- Integrated Nutritionix API via custom actions and developed a modern React + Tailwind frontend with a Flask backend for seamless user interaction.
- Deployed the fully containerized application using Docker with support for cloud platforms like GCP.

Awards / Scholarships / Academic Achievements

- PNB Quiz Medal
- Vidyamandir Classes Scholarship
- INNOV8-2.0 Hackathon by IIT Delhi
- Syntax Error Hackathon by SDS Labs, IIT Roorkee

Skills

Computer languages	Python, C++, Dart, Java, Js and SQL
Software Packages	ReactJS, React Native, Next.js, Tailwind CSS, Figma, Django, MERN Stack, Firebase, MySQL, PostgreSQL, AWS, Docker, Kubernetes, Generative AI, TensorFlow, OpenCV, Scikit-learn, YOLO, Power BI, Flutter, DSA, Redux.
Languages Known	English, Hindi

Positions of Responsibility & Extra Curriculars

**Developer** | E-Cell IIT Roorkee March 2024 - Present

- As a Developer at E-cell IIT Roorkee, I enhance online platforms to foster entrepreneurship and innovation, collaborating with my team to refine our digital presence for the campus community.

**Developer** | STC, IIT Roorkee December 2024 - Present

- Developer at Software Technology Cell (STC), IIT Roorkee, the central body overseeing all tech clubs, building scalable full-stack applications using Next.js, Node.js, MongoDB, and optimizing software solutions through API integration and database enhancements.