



**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 applications for performance, scalability, and deployment.
- Gained experience in DevOps, web/app development, and machine learning/AI, contributing to high-quality software solutions.
- Focused on enhancing user experience through efficient coding, testing, and deployment strategies.

**Data Scientist** | My Assignment APlus September 2024 - December 2024

- Conduct data and algorithm analysis to extract insights for data-driven decision-making.
- Develop research proposals exploring innovative machine learning and data-driven solutions.
- Deploy Python scripts and perform emotion detection in text using R with analysis, visuals, and narrative.

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

- Mentored by Prof. Vishal Vaibhav, IIT Delhi, in the development of an interactive mathematics learning app with advanced educational features.
- Worked on both frontend and backend development, ensuring a seamless user experience and robust system performance.
- Designed and managed the admin panel, enabling efficient content management, user access control, and system configuration for smooth operations.

Projects

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

- Implemented a Retrieval-Augmented Generation (RAG) model for accurate, fact-based responses by combining information retrieval and text generation.
- Enhanced response accuracy using real-time external knowledge tailored to user queries.
- Designed an interactive UI for seamless question-answer interactions based on specific content.

**IPR Website IIT Roorkee** | IIT Roorkee September 2024

- Mentor: Prof. Vivek Kumar Malik, IIT Roorkee
- Developed the IPR website at IIT Roorkee using Next.js for the frontend, Node.js with Express for the backend, and MongoDB for the database.
- Integrated essential Node.js packages such as Nodemailer for email functionality, Multer for file uploads, and Cors for secure API communication.
- Gained hands-on experience in full-stack web development, delivering a tailored web application to streamline IPR processes.

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

- Guided by Prof. Vishal Vaibhav, IIT Delhi, in the development of an interactive mathematics learning platform equipped with cutting-edge educational tools.
- Engineered both frontend and backend systems, ensuring a responsive, intuitive, and high-performance user experience.
- Developed and maintained a comprehensive admin panel, streamlining content management, user access control, and system configurations for seamless operations.

**AI-Powered Talking Avatar** | Absolute Dimension Pvt. Ltd. July 2024

- Developed a real-time conversational AI avatar that responds naturally to user prompts.
- Utilized text-to-speech, and facial animation for lifelike interactions with accurate lip-syncing.
- Enhanced user experience for customer service, virtual training, and interactive learning platforms.

**E-Summit Website** | E-Cell, IIT Roorkee December 2024 - January 2025

- Developed and maintained the E-Summit website for IIT Roorkee, ensuring a seamless and engaging user experience.
- Implemented responsive design, dynamic content, and smooth animations to enhance interactivity and visual appeal.
- Collaborated with the E-Cell team to integrate event registrations, schedules, and interactive features for improved user engagement.

**Skin Disease Prediction with Chatbot** | Syntax Error 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.

- Recognizes speech by analyzing lip movements from videos using CNNs.
- Processes video frames to extract spatial and temporal features for word or phrase prediction.
- Useful for speech recognition in noisy environments and accessibility for the hearing impaired.

- Designed and developed the frontend using ReactJS and Tailwind CSS, following MVC architecture for modular and efficient development.
- Contributed to the backend using Node.js, implementing robust server-side logic and seamless API integration.
- Played a key role in building a high-quality, functional website to meet client requirements with a focus on performance and responsiveness.

- Developed the marketing website VisionVow for VisionVow Corporation.
- Designed and implemented both the backend and frontend.
- Contributed to the overall online presence and marketing efforts of VisionVow Corporation.

- Developed FitKnight, a fitness community platform with a Django REST API backend and Flutter frontend for seamless user interactions. Integrated smart matching, group management, and real-time communication features.
- Implemented WebSocket-based real-time chat and notifications, ensuring instant updates for messages, join requests, and approvals. Optimized performance for fast, responsive, and engaging user experience.
- Designed a secure system with token-based authentication and role-based access control to protect user data. Ensured structured error handling and smooth functionality across all devices.

Awards / Scholarships / Academic Achievements

- PNB Quiz Medal
- Vidyamandir Classes Scholarship

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

- 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.