**LABHANSHU GUPTA**

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# EDUCATION



**Indian Institute of Information Technology,**  *November 2022 – Present*

*Bachelors of Technology – Computer Science Engineering(CSE)* **CGPA: 7.81**

**JEE Main 2022: 98.01 percentile (AIR 17,979)** **– Top-2%**

Relevant Coursework: **Data Structure & Algorithms**,**Full stack development,** **Object Oriented Programming**

**ACADEMIC PROJECTS** 

**Jarvis |AI Powered Virtual |**React.js, Node.js, Express.js, MongoDB [**Live**](https://virtualassistant-jqph.onrender.com)|| [**GitHub**](https://github.com/labhanshu03/Jarvis)

* Designed and engineered a full-stack **Artificial Intelligence (AI)** assistant web application using the **MERN** stack that reduce user query time by **50%** integrated with **Google Gemini API** for natural language interaction.
* Built a **responsive React.js front-end** with an intuitive chat interface for real-time AI responses.
* Implemented **Node.js & Express.js** backend services to handle API requests, authentication, and secure communication.
* Integrated **MongoDB** for persistent storage of user queries, chat history, and session data.
* Ensured security with **HTTP-only cookies**, **JWT authentication**, and HTTPS support for cross-origin communication.
* Deployed and maintained the application on **Render** with optimized build configurations for production scalability.

**OneCart| AI Powered Ecommerce website|**React.js, Node.js, Express.js, MongoDB [**Live1**](https://one-cart-frontendtwo.onrender.com) ||  [**Live2**](https://one-cart-admin-a05l.onrender.com) ||  [**GitHub**](https://github.com/?q=One-cart)

* Developed a full-stack AI-powered e-commerce platform using **React.js**, **Node.js**, **Express.js**, and **MongoDB.**
* Incorporated speechSynthesis to navigate the web application using user voice.
* Built a responsive and interactive **frontend in React.js** with Tailwind CSS.
* Implemented JWT-based authentication and protected **over 5 key routes** to ensure secure user sessions.
* Enabled asynchronous communication between frontend and backend via Axios.
* Handled CORS and middleware configurations for secure cross-origin requests.
* Deployed frontend and backend apps on **Render.**

**EchoRoom| Full Stack Real-time Group Chat Application|React,Typescript,Node.js,Socket.io,MongoDB**[**GitHub**](https://github.com/labhanshu03/Echo-room)

* Engineered a **full-stack**, **real-time** messaging application supporting both individual and group conversations, reducing perceived message latency to under **100ms.**
* Fashioned a reusable React component library leveraging Hooks and Context API to streamline UI development, accelerating feature implementation time by **30%** and enhancing code maintainability for future updates.
* Executed real-time ,bidirectional communication between clients and a **Node.js/Express** server using **Socket.io** ,enabling instant message delivery,typing indicators,and online user status.
* Created a robust **RESTful API with Node.js** to handle user authentication**(JWT)**,message history, and group management(create,add users,rename).
* Leveraged **Zustand** for **state management** to eliminate unnecessary component re-renders, improving runtime performance by ~20% and reducing state-related code by 40% compared to a standard Context API.

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# ADDITIONAL INFORMATION | Technical Skills



* **Languages:** HTML, CSS, JavaScript, TypeScript,SQL
* **Frontend**:React.js, Bootstrap, Tailwind CSS,shadcn
* **Backend**:[Node.js](http://node.js), Express,REST APIs, JWT, OAuth 2.0
* **Databases**:MongoDB , PostgreSQL
* **Tools & Platforms:** Git, GitHub, Postman, VSCode, NPM, Chrome DevTools
* **Soft Skills:** Leadership, Team Management Proficiency, Creativity ,Adaptability ,Problem Solving
* **Technologies:** REST APIs, MVC Architecture, Git
* **Problem Solving**: Solved **200**+ Data Structures and Algorithms problems on LeetCode, including **140** LeetCode mediums and hards.