

# KUMAR AMAN

+91-9102468184    [kumaramanpur30nov@gmail.com](mailto:kumaramanpur30nov@gmail.com)    [linkedin.com/in/aman30](https://www.linkedin.com/in/aman30)    [github.com/apophis30](https://github.com/apophis30)

## Education

Indian Institute of Technology, Roorkee

Nov. 2021 – May 2025

Bachelor of Technology in Mechanical and Industrial Engineering — CGPA: 8.56/10

Roorkee, Uttarakhand

## Experience

Carbon6

Oct 2024 – Dec 2024

Software Engineering Intern

- Collaborated in a **6-member** team to build a hybrid chat app with AI assistant & real-person escalation, enhancing UX
- Enabled real-time communication with WebSockets for low-latency user interactions and instant updates in conversations
- Improved WebSocket performance using **Redis Pub-Sub** and integrated Postgres for efficient chat message organization
- Built backend services for data persistence and retrieval using **PostgreSQL** & **Prisma** for scalable database operations
- Worked in a **Turborepo** build system, using **Next.js** & **Node.js** for conversational logic and shadcn components for UI

Khet AI

Jun 2024 – Aug 2024

Software Engineering Intern

- Designed the **PDF2Chat** feature in AI Bot, enabling conversational interaction with GHG emission accounting files
- Integrated **Conversational Buffer Memory** to improve context retention and accuracy in handling follow-up queries
- Integrated **ChromaDB** with **jina-embeddings-v3**, significantly reducing latency and improving text retrieval efficiency
- Tested chatbot features in a successful pilot run to validate performance and usability across diverse accounting files

## Projects

Social Media Web App | [GitHub](#)

July 2024 - Aug 2024

- Developed a full-stack social media app with **Next.js** and **Express.js** delivering a seamless & engaging user experience
- Integrated **JWT** based authentication, **Axios** for API requests & **Cloudinary** API for secure media storage & delivery
- Built **real-time chat functionality** with WebSockets and devised NoSQL **MongoDB** queries for efficient data retrieval

Smart Hiring Assistant | [GitHub](#)

Mar 2024 - Apr 2024

- Developed an end-to-end interview prep App that interacts, asks CV-based questions and generates elaborate feedback
- Designed the backend of App using **FastAPI**, allowing a student to upload resumes and record answers as audio inputs
- Leveraged **LangChain** framework to build retrieval and conversation chains to interact, store, and update information

Finance Management Application | [GitHub](#)

May 2024 - Jun 2024

- Developed a finance management platform using **Next.js** and used **Drizzle ORM** for efficient SQL query generation
- Integrated **TanStack Queries** to fetch, cache, and revalidate data efficiently, hence significantly reducing API latency
- Created visualizations with advanced charts to showcase expenses, savings trends, enhancing insights and engagement

Course Selling App | [GitHub](#)

Dec 2023 - Jan 2024

- Built MERN course-selling platform with **ReactJS**, **Material-UI** & **Recoil** for responsive and efficient user experience
- Designed **Express.js** APIs with **JWT** auth for role-based access, enabling admin course management & user purchases

## Technical Skills

**Languages:** Python, C, C++, HTML5, CSS3, JavaScript(ES6+), TypeScript, SQL, NoSQL

**Developer Tools:** VS Code, Eclipse, Google Cloud Platform, Android Studio

**Technologies/Frameworks:** Git/Github, ReactJS, NextJS, ExpressJS, RESTful API, Scikit-Learn, Pandas, Matplotlib, PyTorch, TensorFlow

## Academic Achievements

Secured **AIR 4936** in JEE Advanced 2021 and achieved **99.49** percentile in JEE Mains 2021 among 1.2 million+ students  
Secured **Gold Medal** in *InstaPrep-Smart Interview App* challenge conducted by **Languify** in **TechShilla 2.0** held at IITR  
Secured **5th Rank** in *WeldRight Competition*, conducted by **Godrej & Boyce** at **TechFest 2022**, IIT Bombay