

# Ishaan Vats

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## Education

- **Shaheed Sukhdev College of Business Studies, University of Delhi** 2024 – Present  
B.Sc. (Hons.) Computer Science  
CGPA: 6.45
- **St. Xavier's Senior Secondary School, Raj Niwas Marg, Civil Lines, Delhi – 110054** 2024  
Commerce stream with Mathematics and Informatics Practices

## Projects

- Prompto – Real-Time AI Prompt Guessing Game (Full-Stack Project)** GitHub | Live
  - Engineered a real-time multiplayer web game using **Next.js, TypeScript, Express, and Socket.IO** supporting concurrent room-based gameplay.
  - Integrated **Google Gemini Embedding API** and implemented cosine similarity scoring for semantic prompt matching.
  - Designed scalable room architecture with live leaderboard synchronization via WebSockets.
- Sassy\_Talks — Video Conferencing Platform** GitHub | Live
  - Developed a Zoom-style video conferencing platform using Stream Video API, supporting real-time audio/video meetings for **10+ concurrent users per session**.
  - Integrated Clerk authentication and designed meeting workflows across **multiple rooms** with low-latency performance.
- Donation-Based AI Chat Platform** GitHub | Live
  - Engineered a full-stack donation platform using PayU, processing **INR 10–100 custom transactions** with secure verification.
  - Designed a LangChain-based AI chatbot enforcing backend credit validation with **100% transaction accuracy**.
- Canteen Notify System** GitHub | Live
  - Architected a real-time notification system using Firebase Firestore for **multiple menu items**.
  - Optimized backend comparison logic to detect stock changes in **sub-second execution time**.
- Movie Recommendation Web Application** GitHub | Live
  - Developed a movie discovery platform using TMDB API with search and genre-based filtering across **100+ movie titles**.
  - Displayed detailed metadata including ratings, cast, and release dates for **every listed movie**.

## Technologies

**Languages:** C++, JavaScript, TypeScript, Python  
**Frontend:** Next.js, React.js, Tailwind CSS  
**Backend:** Node.js, Express.js, FastAPI, Django, Flask  
**Mobile:** React Native, Expo  
**Databases:** PostgreSQL, MongoDB, Firebase, Supabase, Neon  
**Deployment & Tools:** Vercel, Render, Git, GitHub, Postman, Power BI  
**Areas of Interest:** Generative AI, Machine Learning, Large Language Models (LLMs)

## Positions of Responsibility

- Class Representative (CR), Shaheed Sukhdev College of Business Studies** 2024 – Present
  - Acted as the primary communication bridge between students and faculty for academic coordination.
- Prefect, St. Xavier's Senior Secondary School** Apr 2023 – Jan 2024
  - Assisted school administration in student coordination and event execution.