YASH AGARWAL

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Education

Indian Institute of Information Technology, Kota   **Aug 2023 – May 2027**
Bachelor of Technology in Computer Science   Kota, Rajasthan

Relevant Coursework

- Data Structures
- Software Engineering
- Algorithm Analysis
- OOPS
- Artificial Intelligence
- Computer Architecture
- Database Management
- Operating Systems

Projects

Vbloc *(Next.js (Typescript), Tailwind CSS, FastAPI, Transformer)*   [(Link)]
- Created a YouTube learning tool using ML models to generate instant summaries and reduce study time.
- Enabled users to create AI-powered flashcards and Q&A sessions directly from video content.
- Implemented an interactive chatbot for users to query video details and improve understanding.

Fraud Detection System *(React.js, MongoDB, Kafka, NodeJS, FastAPI, Flask, TensorFlow, Docker)*   [(Link)]
- Built an AI-powered fraud detection system with 72%+ accuracy on real-time transaction data.
- Integrated Kafka to process 5,000+ transactions/hr at scale via scalable producer–consumer pipeline.
- Reduced false positives by 30% using a hybrid ML + rules-based validation.

BagVati *(Tailwind CSS, Node.js, MongoDB, Express.js, EJS)*   [(Link)]
- Built a full-stack e-commerce app with `Node.js, Express, EJS, MongoDB` for luxury bags as the main asset.
- Planned and implemented BagVati's user interface, resulting in positive feedback from 20+ users
  and recognized as a well-executed project by the campus tech community.

Experience

Team Green Organization   **Aug 2025 – Dec 2025**
Technical Lead — Remote

- Developed and maintained web platforms for 2+ sustainability campaigns, enhancing user engagement and visibility.
- Spearheaded the digital execution of eco-friendly events, driving participation from 150+ students.
- Coordinated event logistics and volunteer tracking systems, improving operational efficiency by 30%.

Codebase (Technical Club)   **Nov 2025 – Present**
Coordinator — IIIT Kota

- Led the development of 3+ web projects, resulting in a 40% increase in member engagement and collaboration.
- Enhanced SEO and accessibility across club web content, boosting reach and user interaction by 35%.

Applogika   **Aug 2025 – Dec 2025**
Full Stack Developer — Remote

- Contributed to 2+ production projects, improving user experience and increasing customer satisfaction by 15%.
- Collaborated with cross-functional teams to deliver project milestones 20% faster than planned, improving workflow efficiency and client trust.

Technical Skills

Languages: Python, C++, JavaScript, Solidity, TS
Web: React.js, Node.js, Express.js, MongoDB, Next.js
AI/ML: Scikit-Learn, NumPy, Pandas, Matplotlib
Tools: Git, GitHub, Linux, Docker

Leadership / Extracurricular

- **1st Runner-Up:** IIT Jodhpur DevQuest Hackathon (National Level Hackathon with 100+ teams)
- **Top 10:** DTU Execute 4.0 Hackathon (One of the largest student hackathons in India with 300+ teams)
- **Top 10:** Hack the Chain 2.0 (40+ national teams)
- **Organizer:** 3+ campus tech events (200+ participants)