

Ayush Tiwari

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EDUCATION

Motilal Nehru National Institute of Technology Allahabad	CPI: 7.88 (till 4 th Sem)
Bachelor of Technology in Electronics and Communication Engineering	2023 – current
Kanpur Public Inter College (UP Board)	12 th : 79.8%
Senior Secondary Education	2022
Jugal Devi Saraswati Vidya Mandir (CBSE Board)	10 th : 86.8%
Secondary Education	2020

PERSONAL PROJECTS

AI-Powered Interview & Learning Portal for Developers	Dec 2024 – June 2025
Live Project Demo Video Code Repository	
• Developed Express.js & MongoDB APIs for auth, blog, roadmap, interviews, and certificates.	
• Added email verification, password reset, and JWT session handling with protected routes.	
• Designed admin dashboard for managing users, blogs, roadmaps, interviews, and approvals.	
• Stored user-wise progress, feedback, and interview scores with leaderboard computation.	
Privision: Real-Time Screen Recorder & Sensitive-Data Shield	Oct 2024 – Nov 2024
Code Repository Presentation Architecture Diagram	
• Built a PyQt5-based screen recording app to prevent accidental exposure of sensitive data during livestreams on YouTube, Facebook, and Twitch.	
• Implemented real-time detection and blurring of credit/debit card numbers, API keys, IDs, tokens, and personal text using PaddleOCR, Tesseract, Presidio, Spacy, and OpenCV.	
• Encountered severe latency due to heavy OCR and frame-by-frame processing, making real-time streaming difficult.	
• Optimized performance using batch frame processing, multi-threading, and efficient OpenCV pipelines, and integrated FFmpeg + RTMP for smooth output streaming.	
• Delivered stable 18–24 FPS livestreaming with accurate, low-latency sensitive-data masking.	

AI-Powered Medical Assistant Platform	18 Apr - 20 Apr 2025
Code Repository Demo Video Presentation	
• Built end-to-end platform for online diagnosis, rehab monitoring, and patient-doctor interactions.	
• Integrated BlazePose-based motion tracking and real-time sensor feedback using Socket.IO.	
• Used ESP32 + MPU6050 for hardware posture detection and joint angle tracking.	

TECHNICAL SKILLS AND INTERESTS

Languages: C++, C, JavaScript,

Web Technologies: React, Next.js, Node.js, Express.js, Tailwind, MongoDB, SQL

Familiar With: React Native, TypeScript, Python, DBMS, Data Structures, Operating Systems, Github

Gen AI: Langchain, Langgraph, Langsmith, MCP

Soft Skills: Problem Solving, Communication, Time Management, Leadership

POSITIONS OF RESPONSIBILITY AND PROJECTS

Full Stack Developer, Green Club MNNIT (Jan 2025 – June 2025)	Live	GitHub
Designing secure admin/member dashboards with role-based access with modern UI.		

Full Stack Developer, Culrav-Avishkar (Apr 2024)	GitHub
Collaborated on full-stack Culrav-Avishkar website (React, Express.js, MongoDB, GSAP) to support cultural fest. Enabled 900+ student registrations.	

Executive Developer, CC MNNIT	Certificate	CodeHub	GitHub
Collaborated on Hack36's official platform; contributed to frontend design, implemented various sections.			

ACHIEVEMENTS

2026: 7th/340+ – Hack36 (CC MNNIT, Hackathon), 9th/200+ – hack36 (CC MNNIT) [Certificate](#)

2024: 1st/50+ – Dev or Die (Hackathon), 3rd/150+ – Quintathlon (ES MNNIT, OA+Mock) [Certificate](#)

CODING PROFILES

- **LeetCode:** Contest Rated | 1790