Ujjwal

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EDUCATION

Symbiosis Institute of Computer Studies and Research (SICSR), Pune Expected May 2026
M.Sc. in Computer Applications

- **Key Achievement:** Won in SICSR Hackathon 2024 for EcoBytes (Food-Waste App built with NextJS and Firebase).

Birla Institute of Technology, Mesra Graduation May 2024
Bachelor of Computer Applications (BCA)

EXPERIENCE

Department of Science & Technology (DST), Noida 10th May 2023
Intern

- Developed and prototyped a Menstrual Hygiene Awareness App using MERN stack. Engineered features including a period tracker, product recommendations, product locator, and a myth-busting content module successfully empowering an initial user base of **over 400 individuals** across **4+ rural communities**.

Social Media & Event Management, Noida 1st May to 30th Jun 2023
Intern

- Led **5+ social media campaigns** that enhanced university admission inquiries by **over 25%** through strategic content and targeted lead generation.
- Designed the cover page for the conference proceedings and university newsletter, enhancing visual communication for official publications.
- Coordinated key logistics for the ICIEM'23 Conference, contributing to a successful event for **more than 200+ attendees**.

PROJECTS

EcoBytes, Pune 4th Oct 2024
Team Lead

- Led a team of four to victory in the SICSR Hackathon 2024 by designing and building a food-waste reduction application with Next.js and Firebase.
- Reduced potential food waste by an estimated **30%** for users by implementing an expiry tracking system with automated alerts and a recipe generation engine.
- Integrated a barcode/QR scanning feature that decreased manual data entry time by **80%**.

TalkativeSubs

- Developed a subtitle generation tool using Python, leveraging **OpenAI's Whisper LLM** for high-accuracy audio-to-text transcription or vice versa.
- Engineered a system to convert generated subtitles back into audio, showcasing experience with AI/ML APIs and FFmpeg for media processing.

Academic Project

- Pillar Valley: A minimalistic 3D arcade game, developed using Three.js, and jQuery.
- Stock Sizzle 9000: Architected a stock market analysis platform using Next.js, Supabase, and OpenRouter, integrating real-time data from multiple **REST APIs** to provide AI-powered insights.
- Cat House Adventure: 2D platformer game where players control a hungry cat navigating rooms to find treats, developed using vanilla JavaScript, and PHP.
- What happens when you type google.com: A web-based visualization project explaining the intricate workings of the Internet through an interactive and engaging interface.

RESEARCH PUBLICATION

- Co-authored a book chapter on "*Fundamentals of Digital Twins*" to be published in Book titled "Digital Twins and ESG 2.0: Harnessing Sustainable Innovation for a Better Future" by Wiley-Scrivener (Scopus Indexed).

SKILLS

Programming: Python, Java, HTML/CSS, JavaScript, React.js, SQL, Postgres SQL, Mongo DB, C
Tools: Git, GitHub, Jira, Postman, Scilab, LLMs (OpenRouter, OpenAI Whisper), LangChain, Photoshop, Unity, Unreal Engine