

Education

B.Tech in Computer Science & Artificial Intelligence - Plaksha University, Mohali	CGPA: 9.34	2026
12th CBSE - Jayshree Periwal High School, Jaipur	Percentage: 97.0%	2022
10th CBSE - Jayshree Periwal High School, Jaipur	Percentage: 93.8%	2020

Work Experience

ML Intern ERTS Lab, IIT Bombay, Mumbai	Jun. 2024 - Jul. 2024
- Developed a scalable system capable of processing over 10,000 documents, improving efficiency by 50% for 25+ researchers. - Led end-to-end implementation of advanced NLP techniques like RAPTOR, addressing operational bottlenecks. - Deployed a modular solution for advanced search and document generation on proprietary documents using containerized platforms.	
Software Development Intern TaskLabs, Mohali	Dec. 2022 - Apr. 2023
Led a team of 5 to design and launch a Chrome extension, adopted by 200+ users, to streamline task automation and improve productivity. - Developed a website with a Django backend for automation tools leveraging AWS services like API Gateway and DynamoDB. - Innovated and created online file converters using Python and LangChain, achieving a 40% speed improvement over conventional options.	

Positions of Responsibility

Vice President LEAP, AI Club of Plaksha	Sep. 2023 - Present
- Co-founded the club and drove its growth from 4 to 32 members, fostering a collaborative learning environment for AI and ML initiatives. - Organized and led workshops on topics such as Classification and CNNs, and facilitated projects like AI Hangman and AI Mario, engaging an average of 100 participants.	
Core Organizer FitoorxPrayas, Plaksha University	Sep. 2024 - Nov. 2024
- Organized the university's first techno-cultural fest, working in a team of 3 to lead 35+ members in managing 21 events, coordinating with various clubs, and overseeing 12 independent stalls. - Oversaw event logistics, ensured hospitality for 25+ judges, and facilitated seamless execution through meticulous planning and collaboration.	
Emergent Technologist UN Millennium	Sep. 2023 - Dec. 2023
- Researched and implemented initiatives on child vaccination and menstrual health for local communities in Mohali. - Collaborated with a global network of peers on SDG projects, facilitating cross-cultural dialogue and knowledge exchange.	

Projects

AutoParcel Dr. Rucha Joshi, Plaksha University	Oct. 2023 - Present
- Developed a comprehensive Parcel Management Solution integrated with the university's database using NextJS framework and Python. - Engineered features such as parcel reminders, parcel scanning, and advanced filters, contributing to a 50% increase in parcel logging speed. - Implemented authentication and parcel statistics, reducing uncollected parcels by 70% and enhancing tracking efficiency.	
OpticGym Innohacks, KIET University	Apr. 2024 - Apr. 2024
- Developed an AR-based eye wellness app with real-time feedback, leveraging Unity AR foundation. - Innovated hands-free digital eye checkups with voice recognition, incorporating AR Snell's chart for vision metrics. - Integrated eye movement and blinking exercises using ARKit's blend meshes, reducing eye strain for 70% of users.	
Insuliv Innov8, JECRC University	Sep. 2023 - Sep. 2023
- Developed a diabetes healthcare mobile app integrated with Google Fit for real-time activity tracking, enhancing health monitoring. - Engineered prescription OCR, and reminder alerts, achieving 95% OCR accuracy and optimizing medication adherence. - Created generative lifestyle reports and food recommendation system, improving the user experience and simplifying medication tracking.	

Achievements

- Won the SP Dutt Award for Innovation and Impact for Nautilus One - Development of a Low-Cost, Intelligent Autonomous Underwater Vehicle. Qualified in the Singapore Autonomous Underwater Vehicle Challenge 2025 (SAUVC), organized by IEEE OES Singapore. Grand Finalist in the e-Yantra Robotics Competition 2024 organized by IIT Bombay, selected from over 400 competing teams. - Awarded The Plaksha Dean's List Award for 2022-2023 and 2023-2024, ranking in the top 5 of the student cohort across all disciplines. - Secured the 1st prize of 70,000 INR at the 2023 JECRC Innov8 Hackathon, competing against 300+ participating teams. - Secured the 1st prize at HackPlaksha Hackathon 2023 competing against 30+ participating teams. - Secured the 2nd prize at Ashoka University's Decipher 2023, coding competition.	
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Skills

Programming Languages: Python, C/C++, JavaScript, TypeScript, MATLAB
Full Stack Development: NextJS, PostgreSQL, Tailwind, Django, React Native, Google Cloud, AWS
Machine Learning: PyTorch, TensorFlow, LangChain, Llama Index
Others: Git, Linux, Docker, SolidWorks, Blender3D, AutoCAD, Arduino, Unreal Engine, Unity3D, Figma, Agile Methodologies

Publications

A. Lodha and S. Verma, "Not Just The Carcass...But The Spark: A Critical Reception of Technology", Morung Express, Aug. 1, 2023
