Anshuman Sharma

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PLAKSHA UNIVERSITY

EDUCATION

B.Tech : Computer Science & Artificial Intelligence | Plaksha University, Mohali	**CGPA :** 8.47/10	2026
Class XII : Ryan International School, Jaipur	**Percentage:** 93.8%	2021
Class X : Ryan International School, Jaipur	**Percentage:** 91.8%	2019

WORK EXPERIENCE

ML Intern | *Prof. Sandeep Manjanna, Plaksha University*   May 2024 - Current
- Designed a novel **underwater simulation platform** for embodied AI research, delivering photo-realistic environment powered by **GANs**.
- Implemented a Pix2Pix GAN pipeline for **real-time scene synthesis,** achieving a **0.90 MS-SSIM** score and improving **visual fidelity by 15%.**
- Constructed a **Python-based CLI** with multiprocessing support, accelerating **inference workflows by 20%** and enabling scalable experimentation.

Analyst Intern | *Corporate Partnerships and Careers, Plaksha University*   Apr 2023 - Current
- Redesigned a **recruiter database for 1,500+** companies using MS-Excel and Python, integrating macros to boost data extraction efficiency by 40%.
- Created a comprehensive database, streamlining and **contributing to 100% internship** placement and a **25% PPO rate** for the Class of 2025.
- Co-ordinated **10+ workshops, pre-placement talks, and CPC events,** leveraging data analytics and CRM tools to enhance student skills.

Business Analyst Intern | *Choti Si Asha & CMO Punjab*   Dec 2022 - Feb 2023
- Devised a **data-driven business model** for women-led artisan groups, increasing **revenue by 15%** and promoting **economic independence.**
- Built a **digital marketplace** with WordPress and Wix with API **integration for CSR orders** and proposing scalable operational strategies.

PROJECTS

Surakshak | *Bharti Airtel Foundation*   Dec 2024 - Current
- Devised a real-time **smart security system** using object detection to **enhance intrusion detection** for **underprivileged schools** nationwide.
- Built a **multi-channel notification system** (text, voice, WhatsApp) using Django, Twilio, and a responsive front-end.
- Optimized YOLOv11n for **40ms inference** and **96% accuracy**, tailored for low-resource environments.

AUV Mark I | *Singapore Autonomous Underwater Vehicle Challenge, 2025*   Jan 2024 - Mar 2025
- Engineered an **autonomous underwater robot**, placing in **top 45 globally** at SAUVC 2025 and marking the university's **first international representation.**
- Architected a HUD for **real-time telemetry and diagnostics** with ROS2 integration, enabling remote operation and mission data logging.
- Implemented a neopixel-based **underwater communication system** leveraging **ROS2 pub-sub architecture,** supporting long-range mission updates.

GSDC | *Google Smartphone Decimeter Challenge, 2023-24*   May 2024
- Developed a **GPS enhancement system** with Kalman Filters, **improving accuracy by 10%** and **ranking top 50 globally** in GSDC 2023-24.
- **Improved trajectory prediction** by 40% using an RTKLIB-LSTM ensemble for precise autonomous paths.
- Optimized **LSTM models** with **gradient clipping and dropout techniques,** achieving robust trajectory modeling under noisy conditions.

OpticGym | *Innohacks 3.0, KIET University*   Mar 2024
- Secured a **top 5 ranking** among 200+ teams for an **AR-based eye wellness app** designed to reduce digital eye strain.
- Designed an **iOS platform** using **ARKit and Unity,** incorporating FaceID blendshapes for **eye tracking and Snellen diagnostics.**
- Reduced **response time by 30%** through optimized AR frame rendering, ensuring **seamless real-time exercise feedback.**

Insuliv | *Innov8 Hackathon, JECRC University*   Sep 2023
- Developed a **diabetes management app** with insulin dosage and glucose monitoring via RESTful APIs and Express.js, **securing 1st prize.**
- Innovated a **high-performance database** architecture using Neon, PostgreSQL & Prisma, **achieving 40% faster queries** and enabling **real-time tracking.**
- Created a **smart meal-logging system** with image upload capabilities, **generating personalized health insights.**

SKILLS

Languages: Python, JavaScript/TypeScript, C/C++, Java, MATLAB, Bash,
Frameworks: PyTorch, ROS2, Node.js, Express.js, Prisma (ORM), Neon, Git, Arduino, SQL, Pandas, NumPy, ARKit

POSITIONS OF RESPONSIBILITY

Core Member, *ATHLEDA*   Apr 2023 - Current
- Led sports committee marketing, organizing 50+ intra events for 700+ participants while liaisoning with university administration.
- Directed logistics and sponsorship acquisition for an intercollegiate sport's fest, Eklavya'25, spanning **15+ colleges** and **400+ participants**.
- Headed logistics for Plaksha's inaugural sports fest, Eklavya'24 **spanning 9+ colleges** and **managing 200+ participants**.

Sponsorships and Logisitics Lead, *Fitoor x Prayas 2024*   Nov 2024
- Led the university's inaugural techno-cultural fest, **orchestrating 20 events** and **logistics** for seamless execution and high engagement.
- Raised ₹6.5L in sponsorships by directing a **5-member team**, driving a successful fest with **700+ attendees**.

ACHIEVEMENTS

1st Prize under smart security system at **Bharti Airtel Foundation Hackathon**, 2024.
Top 45 globally at Singapore Autonomous Underwater Vehicle Challenge, 2025.
Top 50 out of **320+ participants** at Google Smartphone Decimeter Challenge, 2023-24.
1st Prize out of **300+ teams** at JECRC University Innov8 Hackathon, 2023.
1st Prize out of **20+ teams** at Ashoka's Banjaara Film Competition, 2023.
3rd Prize out of **40+ teams** at Ashoka's Business Club Monopoly, 2023.