

Harshit Agarwal

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Education

Kalinga Institute of Industrial Technology, Deemed to be University <i>B.Tech. Computer Science and Engineering</i>	May 2027 CGPA: 9.30
Delhi Public School Kalinga / NIOS <i>High School</i>	June 2022 86.2%

Skills

Languages: C/C++, Python, Java, JavaScript, C#, Dart, Kotlin, Go | **Cloud/DevOps:** AWS, Docker, K8s, CI/CD, Terraform
Frameworks: Flutter, React, NextJS, FastAPI, PyTorch, TensorFlow | **Databases:** PostgreSQL, MongoDB, Redis
Tools: Git, Linux, Unity, ROS | **Relevant:** GenAI, Computer Vision, Low Latency Systems, Mobile/Web Dev

Experience

shoppin' — USAR Commerce Technologies <i>Founding SDE</i>	Dec 2024 – Nov 2025
<ul style="list-style-type: none">Built and productionized AI systems for fashion search and try-on at scale (3-4 crore items) using CLIP/VLLM embeddings, object detection, and diffusion-based VTON.Engineered distributed image/video pipelines; Dockerized models on SageMaker; developed backend with Redis caching.Automated data acquisition with high-throughput scraping/onboarding agents for 200+ partner stores.Architected AWS EKS infrastructure with Terraform, GitOps, CI/CD, and disaster recovery workflows.	
SMLab, NISER <i>Researcher (Multimodal AI & Infra)</i>	May 2024 – Nov 2024
<ul style="list-style-type: none">Crafted iPhone-Drone Sensor Calibration & ARKit 3D Modeling system with 180Hz data transmission via TCP Sockets.Built Web Console for self-driving motorcycle (ROS2) handling 25+ sensors with 0.2ms latency.Created SLAM-based toolkits/simulations (Kalman Filters, NeRFs, Gaussian Mapping).	

Projects & Publications

gaitSetPy <i>Python, C</i> [GitHub]	Jan 2025 – Present
<ul style="list-style-type: none">Python package for gait analysis (10k+ samples, 5+ datasets like Daphnet, MobiFall); Reduced processing time by 40%.Developed feature extraction pipeline increasing classification accuracy by 25%; Achieved 97% accuracy with RF/CNN/LSTM.	
NVD Exploitability Toolkit <i>Hugging Face, PyTorch</i> [GitHub]	Dec 2024 – Jan 2025
<ul style="list-style-type: none">Exploitability prediction using DistilBERT/GPT2 fine-tuned on 56k+ vulnerabilities (NVD 2014-2024).Achieved 85.6% accuracy, 92.1% precision. Paper accepted in ICANTCI 2025.	
Parkinson's Gait Analysis <i>Student Researcher</i>	May 2023 – Present
<ul style="list-style-type: none">Studied FOG events/gait imbalances using CNN/LSTM/GNNs under Dr. Jayeeta Chakraborty. Paper submitted to Health and Technology.	

Leadership & Volunteering

KIIT Entrepreneurship Cell <i>RnD Intern, Event POC</i>	Dec 2023 – Nov 2024
<ul style="list-style-type: none">Organized hackathons (\$150K prize pool); Managed 120+ teams for Hult Prize; Secured speakers from top VCs.	
The Period Society <i>Odisha Chapter Sub Lead</i>	Jan 2022 – Present
<ul style="list-style-type: none">Led 35-member team on menstrual health projects; Established Centre for Menstrual Studies, Policy & Education Research.	
Microsoft Learn Student Ambassador - KIIT Chapter <i>AI-ML Volunteer</i>	Jan 2025 – Present
<ul style="list-style-type: none">Implemented DDPM with training/inference support; Led ForgeTube (AI video gen system using LLMs, Diffusion, TTS).Mentored 10+ juniors; built learndiffusion.vercel.app (UNET-based game). Repos: DDPM, ForgeTube.	
Awards <i>Scholarships</i>	
<ul style="list-style-type: none">KIIT Merit Scholarship: Top 1000 Rank (99%tile).Immerse Oxford-Cambridge Research Scholarship: Awarded for essay on Child Development.	

Hobbies

Guitar, Artwork/Design, Philosophy, VFX, Cooking, Anime, Dance, Volleyball