

Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2023 - Present	B.Tech, Chemical Engineering	Indian Institute of Technology Kanpur	7.7/10
2023	CBSE (XII)	Academic Global School, Gorakhpur	95.6%
2021	ICSE (X)	St. Joseph's School, Gorakhpur	95.0%

Scholastic Achievements

- Qualified **JEE Advanced** conducted across India, attempted by approximately **1.8 Lakh** candidates.

2023

• Qualified **JEE Main** among **11.6 Lakh** participants nationwide, ranking in the **Top 0.5%**.

2023

• Awarded **KVPY-SA Fellowship** with **All India Rank 1034** conducted by **IISc Bangalore** among **50,000+** students.

2022

• Selected among **2,000** students for **NTSE Stage 2** nationwide; awarded the prestigious title of **NTSE Scholar**.

2021

Work Experience

Honeywell Technologies ^o <i>Honeywell Forge AI Team</i> <i>Artificial Intelligence Intern</i>	<i>May '25 - Jul '25</i>
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Data Ingestion Agent

Objective	• Architect a modular, config-driven agentic data ingestion and self-healing pipeline standardizing multi-source streaming and database inputs into Delta Lake.
Approach	• Modular Ingestion Framework: Built an Object-Oriented (OOP) Python ingestion pipeline supporting sources like Kafka, Elasticsearch, and PostgreSQL, unifying multi-source data into Delta Lake tables and deploying via CI/CD as Databricks jobs (<code>.whl</code>). • Deterministic Schema Drift Resolution: Intercepted schema drifts, struct evolutions, and Spark auto-lowercase collisions (e.g., <i>Col A</i> vs <i>col a</i> $\rightarrow$ <i>a2</i>) via automated conflict-renaming and logging change rationales into dedicated Delta audit tables. • Statistical Profiling & Metadata Inference: Extracted column-level statistical metrics (null rates, cardinality, distributions, data samples) and prompted Phi-4 LLM to synthesize canonical concepts, business domains, and standardized column names into Master Metadata. • Deterministic & Semantic Column Merging: Orchestrated Phi-4 to execute safe union strategies (simple, struct-enlarge, type-cast unions with row-exclusivity validation) for renamed columns, and clustered candidate columns via sentence embeddings & cosine similarity. • Hierarchical Multi-Agent Governance: Structured a dual-tier agent architecture where schema transformations are governed and validated by Claude Opus, incorporating Human-in-the-Loop (HITL) escalation for ambiguous schema variations. • Self-Healing Diagnostics & Alerting: Integrated Claude Opus for real-time error root-cause diagnosis, dynamic runtime parameter auto-tuning (timeouts, buffer allocations), automated job reruns, and automated Jira/email alerting.
Results	• Fully decoupled downstream data engineering pipelines from source-specific formats through source-agnostic Delta Lake standardization. • Established enterprise-grade automated schema drift reconciliation and autonomous self-healing execution with zero manual developer intervention.

Parallel Inference on THOR GPUs

Objective	• Benchmark distributed LLM serving architectures and engineer a fault-tolerant multi-GPU inference cluster for high-throughput enterprise workloads.
Approach	• Distributed Cluster Setup: Orchestrated a 3-node multi-GPU compute cluster across 3 NVIDIA Thor GPUs using the Ray framework to evaluate large language model serving performance on Qwen-32B. • Multi-Instance Replication Benchmarking: Deployed independent Qwen-32B model instances on each GPU, achieving near-linear $\sim 3\times$ inference throughput scaling under high concurrent query loads. • Tensor Parallelism Latency Analysis: Sharded the model across all 3 GPUs; demonstrated that inter-GPU communication latency overhead outweighed parallelization benefits for single-GPU-fitting models (32B). • Dynamic Load-Balancing Router: Built a custom routing layer on Ray tracking real-time GPU availability, load overhead, and remaining compute headroom to dispatch requests with minimal queuing latency. • Fault Tolerance & Disaster Recovery: Simulated node failure by terminating an active GPU worker, verifying automated failover traffic re-balancing across surviving nodes and dynamic zero-downtime re-integration upon recovery.
Results	• Formulated empirical deployment heuristics proving model splitting optimal for out-of-memory scale/training and replication superior for real-time inference throughput. • Verified automated disaster recovery and zero-downtime failover under high-concurrency enterprise workloads.

LENEK Technologies ^o <i>Artificial Intelligence Intern</i>	<i>July '25 - Dec '25</i>
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- Developed a multi-modal vision model for automated disease diagnosis using **chest X-ray imaging**, with the aim of reducing clinical dependence on CT scans.

• Engineered a **vision-based diagnostic pipeline** to automatically detect thoracic abnormalities like **cardiomegaly**, **pleural effusion**, **lung shrinkage**, **pneumothorax**, and advanced pulmonary pathologies using the **CheXpert** dataset.

• Built diagnostic decision-support tools assisting radiologists in obtaining **faster, highly accurate, and cost-effective** pulmonary diagnoses.

Research Experience

Granular Particle Flow Profiler IIT Kanpur		May '25 - Present
Mentor: Prof. Anurag Tripathi Department of Chemical Engineering		
Objective	• Develop a high-accuracy real-time computer vision pipeline for particle segmentation, morphological feature profiling, and classification of dynamic granular flows.	
Approach	• Experimental Rig & Optical Setup: Enhanced an existing inclined-plane particle flow bench by integrating a high-intensity DC backlighting panel (providing constant, flicker-free silhouette illumination) and applying a custom anti-reflective matte lining to eliminate rolling particle surface glare. • High-Resolution Sensor Acquisition: Captured dynamic granular flow streams using a Samsung Galaxy S22 sensor configured for high-FPS, high-resolution video recording without motion blur. • Spatial Metric Calibration: Corrected lens distortion and established precise pixel-to-millimeter metric conversions using a standardized 10×10 cm black calibration reference square . • Multi-Material Flow Dataset: Curated high-speed dynamic datasets capturing continuous flow across 4 industrial bulk materials: iron ore, coke, pellets, and sinter . • Two-Stage Instance Segmentation: Coupled YOLOv11 detection with SAM2 (Segment Anything 2) for generating high-precision segmentation masks on occluded, touching, and rapidly moving granular particles. • Morphological Descriptors & Hybrid Classifier: Extracted quantitative geometric features (aspect ratio, sphericity, contact eccentricity, surface area, equivalent diameter, perimeter); actively developing a classifier fusing segmented visual patches with morphological descriptors for automated multi-material classification.	
Results	• Achieved mAP@0.5 = 99.2% and mAP@0.95 = 89.5% on unseen dynamic particle validation datasets. • Validated automated vision metrics against traditional manual static sample photo analysis, achieving comparable accuracy with significant speedup.	

Major Competitions

Singapore Autonomous Underwater Vehicle Challenge (SAUVC) '25, Singapore [🌐] Team AUV, IITK		Mar 2025
Objective	• Develop an autonomous underwater vehicle capable of performing complex localization, obstacle avoidance, and target recognition tasks in turbid waters.	
Approach	• Curated a custom pool dataset (annotating gates, flares, buckets, buoys) for vision evaluation and model benchmarking under turbid conditions. • Implemented real-time vision pipeline for underwater buoy detection using fine-tuned YOLOv11 running at 30 fps on Jetson Orin Nano. • Integrated IDS industrial cameras, Jetson Orin Nano, and IMU into the vehicle architecture for synchronized real-time data acquisition and task execution.	
Results	• Qualified among 100+ international teams across 20 countries and represented IIT Kanpur at SAUVC '25, held at Singapore Polytechnic .	

High Resolution Elemental Mapping of Lunar Surface — ISRO [🌐] 13th Inter IIT Tech Meet		Oct '24 - Dec '24
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Objective	• Develop a high-resolution elemental map of the Lunar surface utilizing X-Ray Fluorescence (XRF) spectral data from the Chandrayaan-II orbiter.	
Approach	• Developed an automated pipeline to isolate solar flare events from NASA timestamp logs , separating flare-induced spectral signals from ambient noise. • Estimated background X-ray radiation during quiescent solar periods to accurately isolate flare-induced elemental emission peaks. • Enhanced spatial resolution by leveraging overlapping orbital data segments and applying 2D spatial interpolation algorithms.	
Results	• Created a high-resolution lunar surface elemental map; ranked 6th overall and 2nd in XRF Catalogue among 23 participating IITs .	

Projects

ATAL AUV — Perception, Vision & Depth Estimation System [🌐] AUV-IITK Prof. Indranil Saha		Apr '24 - Present
Objective	• Develop a robust, low-latency 3D perception and vision depth system for autonomous underwater target acquisition and spatial mapping.	
Approach	• Detection Pipeline: Fine-tuned YOLOv11 and SSD object detectors on custom pool datasets for robust multi-class underwater object recognition at 30 fps. • Transformer Monocular Depth: Evaluated MiDaS vision transformers for monocular depth estimation, analyzing spatial consistency under underwater light scattering. • Stereo Vision: Engineered a synchronized dual IDS camera stereo vision pipeline computing dense disparity maps for accurate 3D metric obstacle distance. • System Integration: Integrated an NVIDIA Jetson Orin (GPU perception) with an Intel NUC via an onboard ethernet network switch for zero-lag communication.	
Results	• Enabled real-time 3D spatial awareness and robust obstacle avoidance, powering ATAL AUV's qualification for SAUVC 2025.	

ATAL AUV — 6-DoF Control, Autonomy & Telemetry Dashboard [⚡] AUV-IITK Prof. Indranil Saha Apr '24 - Present	
Objective	Design and deploy a dynamic 6-DoF motion controller, multi-sensor state estimation filter, and interactive web telemetry station for ATAL AUV.
Approach	Cascaded PID Control: Designed and tuned a 2-loop cascaded PID controller (inner rate and outer attitude/position loops) across 6 Degrees of Freedom (6-DoF). Dual Operating Modes: Built control logic enabling seamless switching between human-guided teleoperation and fully autonomous mission execution. Sensor Fusion & State Estimation: Fused IMU, DVL (Doppler Velocity Log), and pressure sensor streams via an Extended Kalman Filter (EKF) on the microcontroller. Telemetry Dashboard: Built a web dashboard for live PID tuning, auto-tuning routines, real-time attitude telemetry, bot arming/disarming, and emergency kill-switch failsafes.
Results	Achieved zero-lag sub-millimeter dynamic vehicle stabilization and complete operational safety monitoring across autonomous pool trials.
Acetic Acid Production via Methanol Carbonylation CHE453: Process Design Capstone Project Aug '26 - Present	
Objective	Design, simulate, and optimize an energy-efficient industrial flowsheet for a 200,000 tonnes/year glacial acetic acid plant using Aspen Plus.
Approach	Thermodynamic Property Modeling: Implemented a dual-property strategy: assigned SR-Polar for high-pressure/temperature (220°C, 35 bar) liquid-supercritical gas reaction phase and Wilson-HOC for separation train, explicitly modeling vapor-phase carboxylic dimerization. VLE Regression & Validation: Regressed binary interaction parameters in Aspen Plus Data Regression System (DRS) against experimental isobaric VLE data (BVLE-152) at 1.01 bar, substantially eliminating bubble/dew point offsets for acetic acid/water. Reaction & Energy Integration: Simulated liquid-phase catalytic carbonylation (RStoic) with methyl iodide promoter recycling, evaluating secondary side-reactions and integrating a captive Brayton-cycle CHP turbine with LP/HP steam generation. Separation & Absorber Design: Configured a dehydration column (DSTWU) for 99% water removal, a product recovery column for 99.8% acetic acid recovery, and a 10-bar RadFrac methanol absorption column for light-ends recovery.
Results	- Closed overall mass and energy balances for 25 t/h product flow, achieving 99.67 mol% glacial acetic acid purity. - Verified economic feasibility with 14.2% gross margin through on-site carbon monoxide partial oxidation generation.
Virtual Company Building Course Project: CHE261 Mentor: Prof. Raghvendra Ragipani Jan '25 - Apr '25	
Objective	Develop an optimal industrial process for the synthesis and commercialization of high-value chemical products ensuring economic feasibility.
Approach	- Researched sustainable production pathways for bio-based fine chemicals and selected 2,5-Furandicarboxylic Acid (FDCA). - Collaborated with Market Analysis and R&D teams to formulate the most sustainable reaction pathway and catalyst selection. - Completed rigorous Mass Balance and Energy Balance calculations on FDCA synthesis leading to a fully functional process flowsheet.
Results	Designed a complete Process Flow Diagram (PFD) for a commercially viable plant producing 1,000 kg/day of pure FDCA.
Heat Transfer Application Course Project: CHE212 Prof. Akash Choudhary Jan '25 - Apr '25	
Objective	Validate Heat Transfer fundamentals on a custom real-life aluminum prototype equipped with multiple temperature sensors.
Approach	- Developed a U-shaped aluminum fin symmetrically fitted with 7 heat sensors, powered by a 13.2W heating source. - Logged real-time temperature telemetry across all spatial points using CoolTerm software until reaching steady state. - Plotted analytical and empirical temperature distribution curves using MATLAB under Dirichlet boundary conditions (tip at 273K, base at 322.6K).
Results	Deduced the empirical convective heat transfer coefficient (17.143 W/m²K), demonstrating negligible deviation from analytical theory.
Hydrogen Production Flowsheet Simulation Course Project: CHE251 Prof. H. Katkar Aug '24 - Nov '24	
Objective	Design, simulate, and optimize an industrial-scale hydrogen production process flowsheet using DWSIM and AS-PEN Plus.
Approach	- Screened multiple catalyst configurations to minimize byproduct formation and maximize synthesis yield. - Built a quadratic regression model analyzing the sensitivity of temperature (T), Steam-to-Carbon (S/C) ratio, and Ni catalyst loading.
Results	- Identified 700°C as optimal reforming temperature using NiO-Fe₂O₃/Al₂O₃ catalysts. - Deduced that incorporating Cerium Oxide promotes catalyst stability and minimizes carbon/coke deposition.
Face Reconstruction & Frontalization [⚡] Pipeline [⚡] Prof. Koteswar Rao Course Project, IITK Aug '24 - Oct '24	
- Reconstructed high-resolution faces from low-quality CCTV video footage to support automated forensic sketch generation for law enforcement. - Trained custom YOLOv8 for blur detection[⚡], applied pre-trained GANs for motion deblurring[⚡], and evaluated reconstruction fidelity using PSNR and SSIM metrics. - Implemented OpenCV facial landmark alignment & 3D pose angle estimation to compute yaw angles, dynamically routing extreme poses to Qwen-2.5 Image Edit for conditional high-fidelity face frontalization.	

- Built financial valuation models using **Discounted Cash Flow (DCF)**, **profitability ratios**, and **financial statement analysis**.
- Gathered market data via financial APIs, performing extensive **EDA** and dimensionality reduction via **PCA**.
- Trained neural networks and gradient-boosted decision trees for long-term stock price forecasting, optimizing hyperparameters.

- Built quantitative analytics pipelines spanning **market data visualization**, **technical trading systems**, and **portfolio risk attribution**, computing **beta estimation**, **CAPM-based alpha**, and **correlation-driven diversification**.
- Developed a **factor-based ML portfolio model** on NASDAQ-100 data, implementing **long-short equity strategies** using **valuation**, **momentum**, and **quality factors** with **XGBoost/LightGBM rank prediction** benchmarked against the **Fama-French 3-factor model**.
- Engineered a **Bitcoin alpha-generation model** integrating **on-chain (hash rate, active addresses, fee-to-market-cap)** and **macro (DXY, 10Y yield)** features across **4,292 observations** with ML-driven signal generation and risk evaluation.
- Developed and deployed a **Django-based platform** to backtest **custom weighted-signal technical strategies** and **ML models**, rendering live equity curves, drawdowns, and risk-adjusted performance metrics.

Objective	• Developed an LSTM-based alpha engine to forecast short-term mid-price moves across 5+ HFT markets. • Combined deep learning sequential architectures with classical quantitative finance models to optimize real-time limit order pricing.
Approach	• Engineered 12+ microstructural features from Level-2 (L2) tick data: order imbalance, micro-price, and dynamic VWAP. • Designed PyTorch LSTM models with a 3-layer architecture to capture high-frequency sequential limit order book dynamics. • Integrated the Avellaneda-Stoikov model to compute optimal bid-ask spread and inventory-adjusted reservation prices.
Results	• Built a hybrid alpha engine generating signals to dynamically calibrate limit orders with sub-second latency. • Achieved a 15% reduction in adverse selection costs through optimized, inventory-sensitive spread management.

Objective	• Develop practical deep learning solutions spanning crystal structure material classification and medical diagnostic computer vision.
Approach	• Built Deep Neural Networks (DNN) to classify complex chemical compounds into crystallographic structures using tabular physical features. • Engineered Convolutional Neural Networks (CNN) in TensorFlow to detect COVID-19 pathology from chest X-ray images. • Developed CNN models to classify fluid dynamics flow profiles of liquids passing through cylindrical pipe systems.
Results	• Gained extensive practical proficiency in end-to-end neural network architecture design, feature engineering, and evaluation.

- Implemented core machine learning algorithms from scratch in pure Python and NumPy, including **Batch/Stochastic Gradient Descent** and **Logistic Regression**.
- Applied custom models to multi-class wine quality classification benchmarks, implementing feature scaling, regularization, and outlier removal.

Open-Source Contributions

Issue	• #10840: In <code>cub::DeviceFind::FindIf (agent.find.cuh)</code>, vectorized temporary storage buffers lacked SIMD alignment specifiers, triggering hardware misaligned load exceptions and undefined behavior on NVIDIA GPUs.
Fix	• PR #10890: Enforced explicit <code>alignas(VectorT)</code> attributes on stack-allocated temporary buffers, ensuring strict hardware alignment guarantees across all CUDA GPU compute architectures.

Issue	• #4161: Streaming logs for non-existent containers crashed the FastAPI endpoint with mid-stream 500 errors. • #4160: Calling the extension restart endpoint on uninstalled extensions produced unhandled server exceptions. • #4168: Querying serial interfaces on non-Linux / STM32-based flight controller boards threw unhandled assertion failures.
Fix	• PR #4186: Implemented container existence pre-checks, returning structured HTTP 404 responses before opening log streams. • PR #4185: Refactored Kraken extension lifecycle handler to raise structured <code>ExtensionNotFound</code> HTTP 404 exceptions. • PR #4184: Added platform checks to gracefully return an empty serial device list on non-Linux / bare-metal embedded targets.

Issue	• In gimbal control and vehicle telemetry logic, ternary conditionals defaulted to integer literal (0) on false branches instead of float literals, creating implicit type conversion warnings and register re-casts.
Fix	• PR #29624: Standardized all default return literals to IEEE-754 single-precision float (0.0f), ensuring type consistency across bare-metal embedded compiler targets.

Positions of Responsibility

Overall Coordinator | Pragaman’ 27 | Academics & Career Council (AnC), IIT Kanpur Aug ’26 - Present
Target Budget: INR 25 Lakhs | Inaugural Edition of India’s First Holistic Academic & Career College Festival

Leadership	• Spearheaded conceptualization and Senate approval of the festival as a founding core team member, establishing India’s first comprehensive academic and professional development ecosystem. • Formulating overarching festival vision, organizational structure, and 0→1 roadmap for the new institute-level flagship. • Leading an executive core team across 4 functional verticals, targeting an operational/sponsorship budget of INR 25 Lakhs from corporate partners and alumni networks.
Initiatives	• Formulating pan-India outreach and PR campaigns designed to attract 15,000+ students across 50+ institutions for 4 distinct event verticals (Higher Studies, Placements, Startups, Competitive Exams). • Structuring B2B pitch decks to secure collaborations for specialized skill-building bootcamps, including GenAI, Agentic ML, and Corporate Strategy. • Overseeing digital operations, festival branding, web portal development, and multi-channel acquisition funnels targeting 100K+ digital reach.
Impact	• Driving strategic partnerships with 30+ tech corporations and VC funds to source real-world problem statements for industry hackathons and angel investor pitch sessions. • Establishing the blueprint for institute-industry synergy by connecting students with industry leaders, academia, and startups to enhance career readiness and innovation. • Targeting 50+ external institutional/industry collaborations, institutionalizing a repeatable growth engine and operational playbook for future editions.

Team Head | Autonomous Underwater Vehicle (AUV) | Science and Technology Council, IITK Apr ’25 - Apr ’26

Leadership	• Spearheaded a team of 30+ undergraduate students to conduct research on underwater robotics and build functional autonomous vehicles. • Organized the team into 6 technical divisions and conducted structured technical onboarding for efficient knowledge transfer. • Secured INR 20 Lakhs and INR 50 Lakhs in alumni funding through technical pitches and live vehicle demonstrations.
Initiatives	• Devised a systematic training curriculum in Machine Learning, Computer Vision, and ROS for 10+ junior team members. • Managed team PR and outreach, spearheading official website updates and increasing engagement on social channels.
Impact	• Managed a budget of INR 2 Lakhs+, component inventory worth INR 40+ Lakhs, and acquired INR 1 Lakh+ in workstation PCs. • Showcased AUV research at IIT Kanpur outreach events for underprivileged school students to inspire engagement in STEM fields.

Simutech Mentor | Chemineer’s Society, IIT Kanpur Jun ’25 - Present

- Worked with the Simutech Head to plan annual activities and define the department’s strategic roadmap.
- Ideated and presented both core and non-core project ideas to juniors, fostering skills in innovation and structured thinking.
- Organized competitions and developed problem statements to actively engage the UG Y24 batch in departmental initiatives.

Organizer | Antaragni (Cultural Festival), IIT Kanpur Jul ’24 - Oct ’24

- Worked on building various websites for **Antaragni** (Flagship Cultural fest of IIT Kanpur) to increase its reach and popularity.
- Worked to develop the main website for Antaragni 2024, using **ReactJS**.
- Coordinated with a three-tier team to bring up a Campus Ambassador and Events Registration Portal along with the main website and oversaw the chatbot integration on the main website.

Secretary | Programming Club, IIT Kanpur Jun ’24 - Mar ’25

- Assisted the club in the SnT Pavilion (showcasing club’s work), coordinating to develop an interactive **CNN** model animation showing training on **MNIST**.
- Coordinated among fellow Secretaries to curate a comprehensive roadmap for **Computer Vision**.
- Mentored 20+ undergraduates in spring camp project, teaching basics of Machine Learning along with fundamentals of CV and NLP.
- Organized various workshops and sessions with fellow secretaries like intro to programming, CP, ML, and GSOC AMA.

Junior Team Member | Autonomous Underwater Vehicle (AUV), IITK Apr ’24 - Mar ’25

- Worked on developing an autonomous bot to participate in competitions like **SAUVC** (Singapore)^o & **ROBOSUB** (California)^o.
- Contributed to the bot’s software, focusing on **Computer Vision** tasks like underwater gate detection, image enhancement with filters, and developing models to detect gates and provide coordinates for navigation through the gate.

Technical Skills

Programming Languages	C C++ Python SQL MATLAB Java JavaScript HTML L ^A T _E X
ML & Deep Learning Libraries	PyTorch TensorFlow OpenCV NumPy Pandas Scikit-Learn Hugging Face Ray Ultralytics (YOLO) Keras SciPy Matplotlib Seaborn ONNX
Cloud, Data & Systems	Databricks Delta Lake Apache Kafka Elasticsearch PostgreSQL GCP CI/CD Docker Git ROS / ROS2 Linux Bash
Utilities & Productivity Tools	Antigravity GitHub Copilot Stitch Kaggle Aspen Plus DWSIM CAD

Relevant Courses

(* Ongoing)

Fundamentals of Computing	Introduction to Cognitive Science*	Introduction to Machine Learning*	ML for Chemical Engineers*
Applied Cognitive Science	Linear Algebra	Numerical Methods	Single Variable Calculus
Several Variable Calculus	Partial Differential Equations	Ordinary Differential Equations	Energy, Climate & Sustainability
Heat Transfer	Chemical Process Industries	Fluid Mechanics	Chemical Engineering Thermodynamics
Mass Transfer	Neurobiology*	Introduction to Electronics	Chemical Reaction Engineering

Extra-Curricular Activities

Social	- Volunteered with Prakriti, IIT Kanpur’s sustainability cell, to promote sustainable resource management and waste reduction. - Participated in campus cleanliness drives, successfully collecting 20 kg+ of non-degradable waste for safe industrial disposal.
Cultural	- Represented hall in Galaxy ’24 (inter-hall cultural championship) in the Dramatics event, securing 3rd position. - Participated in the Freshers ’23 Dramatics production organized by the Media and Cultural (MnC) Council, IIT Kanpur.
Technical	- Represented hall in Takneek ’24 (inter-hall Tech Championship) conducted by the Science and Technology Council. - Secured 2nd place in on-spot technical problem solving under the Computer Vision and Robotics category in Takneek ’24.
Managerial	- As Programming Club Secretary, curated a comprehensive Computer Vision roadmap and organized institute-wide hackathons and workshops. - Served on the Election Commission, assisting in conducting free, fair, and smooth Students’ Gymkhana general elections.