

ADITYA GAUR

✉ aditya.gaur@students.iiit.ac.in  [linkedin](#)  [adzi283](#)

EDUCATION

International Institute of Information Technology, Hyderabad

B.Tech. (Honours) in Computer Science and Engineering

Jul. 2023 – May 2027

Hyderabad, Telangana

RESEARCH

Machine Learning Lab (MLL), IIIT-H

Apr. 2025 – Present

Honours Student / Undergraduate Researcher

Hyderabad, Telangana

- Lead a small student research team across world models, representation learning, graph learning, and AI safety; drive projects from hypothesis and theory through implementation, preregistered experiments, falsification, and manuscript preparation.
- Built reproducible research pipelines with PyTorch, PyG/DGL, W&B, and Hydra, spanning controlled world-model environments, graph benchmarks, and model-behaviour evaluations.

SELECTED RESEARCH & PUBLICATIONS

Closed-Form Node Classification with Exact Graph Unlearning

Aditya Gaur, Charu Sharma | [arXiv:2605.25662](#)

Preprint, 2026

- Introduced deterministic closed-form graph learning with exact retrain-equivalent unlearning for label, feature, edge, node, and subgraph modifications; verified exactness across 109 configurations.
- Matched or beat the best vanilla 2-layer GCN/SAGE/GAT on 9/9 measured datasets; localized ogbn-arxiv updates were $21\text{--}45\times$ faster than full re-solving and roughly $10^6\times$ faster than gradient retraining.

A Human-Grounded Audit of Emergent Misalignment: What Transports and What Does Not

Aditya Gaur, Charu Sharma

Manuscript, 2026

- Designed a preregistered audit across two model families, five seed-matched organism-control pairs, held-out prompts, and blinded human ratings; human and judge binary verdicts agreed on 86/90 rows (95.6%, $\kappa=.91$).
- Showed that apparent transport of emergent misalignment is highly sensitive to the edit, behavioural construction, and evaluator, separating broad human-rated behaviour from narrow task-specific estimates.

EXPERIENCE

VARAISYS Pvt. Ltd.

Nov. 2022 – Jul. 2024

Machine Learning Researcher

Hybrid

- Built IC-ATA mapping/validation and dataset-ingest workflows; developed config-driven Span/Text categorizer training with model versioning and online/offline deployment using Python, spaCy/scikit-learn, and REST APIs.
- Implemented auto-annotation and suggestion pipelines, accuracy dashboards, and precision/recall/F1 exports; supported labeling operations and production data import/export workflows.

MITYUNG

Apr. 2021 – May 2022

Software Developer

Remote

- Worked on Medzinc, an automated medical-record dashboarding product; built ETL ingestion/normalization, RBAC, backend views, and audit logging with Flask, SQL, and REST APIs.
- Tested interactive clinical dashboards and exports, added backend tests, and worked with clinicians and product stakeholders to translate workflows into software requirements.

PROJECTS

Asset Management System (IIITH)

PHP, MySQL, Bootstrap, Sessions

- Designed the schema and end-to-end asset lifecycle from procurement and assignment through maintenance and scrapping, with audit trails, role-based views, and utilization reports for administrators.

C-Shell

C, POSIX, Signals, Networking, Linux

- Built a POSIX shell with pipes, redirection, job control, and 20+ commands; added 10+ custom commands using /proc and TCP with signal-safe logging and replay fidelity.

TECHNICAL SKILLS

Languages: Python, C/C++, Rust, SQL, Bash **ML/Research:** PyTorch, PyG/DGL, scikit-learn, Hugging Face, W&B, Hydra
Systems/Tools: Linux, Git, Docker, FastAPI, PostgreSQL, REST APIs

ACHIEVEMENTS

JEE Main: All India Rank 1790 (2022) **Tennis (AITA):** National Ranking #66 (U-14)