

ADITYA DEV

Phone: +91-8009917281 | Email: adityadev8009917281@gmail.com | LinkedIn: [adityadev00](https://www.linkedin.com/in/adityadev00)
GitHub: [adityadev00](https://github.com/adityadev00) | Codolio: [Adi_00](https://codolio.com/Adi_00)

Objective

Computer Science (AIML) undergraduate with a strong foundation in Data Structures, Algorithms (C++), and intelligent systems. Eager to leverage problem-solving capabilities, backend development, and applied machine learning to build high-performance, real-world software solutions.

Education

United College of Engineering and Research (UCER)

Bachelor of Technology, Artificial Intelligence and Machine Learning

Sept 2024 – 2027

7.43 CGPA | Prayagraj, India

United University

Diploma in Computer Science and Engineering

Sept 2021 – 2024

Prayagraj, India

Experience

Discord Server Automation & Design – Independent Developer

May 2022 – Jan 2023 | Remote

- Architected and managed full-scale Discord server infrastructure utilizing custom bots integrated for user registration, match scheduling, and announcements.
- Established role hierarchies, permission structures, and automated event channels using MEE6, Dyno, and Carl-bot.
- Enhanced community member onboarding experience and streamlined operational management through command-based bot interactions.

Event Operations Lead – Upthrust Esports

Dec 2021 – Mar 2022 | Remote

- Directed end-to-end tournament operations, schedule coordination, and real-time execution across large esports participant pools.
- Collaborated with community moderators and integrated digital automation tools to facilitate player query workflows.
- Maintained competitive integrity, timely support, and active engagement, boosting overall participant retention by 70%.

Academic & Technical Projects

1. GNR-Val – AI-Assisted CAD Validation System

[GitHub](#) | [Live Link](#)

- Engineered a hybrid Graph Neural Network (GNN) + rule-based CAD validation pipeline performing automated Design Rule Checking (DRC), Geometric Compliance Analysis, and Constraint Validation on 3D component geometries.
- Implemented a TransformerConv GNN for graph-structured Feature Extraction from CAD topology, fusing ML predictions with ISO 2768 rule-engine scores via a weighted decision layer: $V = 0.65 \cdot R_{rule} + 0.35 \cdot R_{GNN}$, with hard compliance override on critical violations.
- Designed and implemented a fusion decision layer combining graph-based ML predictions with rule-based engineering validation, producing explainable verdicts across Compliant, Review-Needed, and Non-Compliant assessment states.
- Performed integration testing across diverse CAD validation cases to verify system reliability, threshold-based verdict logic, and explainable feedback generation.
- Tools and Technology:** Python, GNN, TensorFlow, Fusion 360 API.

2. Doodle Dash – Skribbl Clone

[GitHub](#) | [Live Link](#)

- Engineered a server-authoritative real-time multiplayer game for up to 20 concurrent players per room.
- Architected an optimized HTML5 Canvas engine with normalized (0–1) coordinate mapping for cross-device consistency.
- Throttled network traffic by batching stroke data to ~60 packets/sec.
- Implemented fuzzy guess detection using the Levenshtein distance algorithm and designed a resilient session reconnection flow with a 30-second grace window.
- Tools and Technology:** React, TypeScript, Vite, CSS, HTML, Node.js, Express, Socket.IO.

Certifications And Achievements

- Flipkart GRiD 8.0:** Advanced to the Pre-Finals in prestigious nationwide engineering competition.
- HackWithInfy:** Qualified Round 2 of Infosys flagship coding competition.
- TCS Priority NQT:** Successfully cleared the National Qualifier Test.
- CodeStudio Specialist:** Achieved a contest rating of **1720** (Rank: Specialist) with 250+ DSA problems solved.
- Campus & Technical Competitions:** Winner – Enigma XII Tournament (2024), Manan Fest Tech Games (2024), Mridang (2023), Unicorn Quiz (2022).
- Workshop:** Organized and hosted the Cyber Rakshak Workshop covering cybersecurity awareness and digital hygiene.

Skills

- Languages:** C++, Python
- Core Concepts:** Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Database Management Systems
- AI/ML:** NetworkX, NumPy, Pandas, TensorFlow, Keras, OpenCV, Hugging Face, XGBoost, MLflow
- Tools:** Git, GitHub, GitHub Actions, Streamlit, Google Colab, MySQL, Cursor AI, Docker, Linux, Jupyter Notebook, Fusion 360 API, Postman, REST APIs