

# Anany Singh

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## EDUCATION

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### Indraprastha Institute of Information Technology

*BTech in Electronics and VLSI Engineering*

New Delhi, India

Aug 2023 – Present

## EXPERIENCE

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### Full-Stack Intern, Camarin AI

Decemeber 2024

- Implemented the existing backend model into a functional full-stack application, ensuring seamless integration between data pipelines and user interface components.
- Developed the entire frontend of the website using Next.js, focusing on responsive design and performance optimization to enhance user experience across devices.
- Collaborated closely with the development team to deliver key features ahead of schedule, accelerating the project timeline by 25 percent and improving frontend load times by 40 percent.

### Undergraduate Researcher, MIDAS Lab

Jan 2026 - Present

- Contributing to ongoing research focused on evaluating and enhancing Code LLMs through the design and orchestration of autonomous agent-based workflows.
- Building evaluation pipelines and benchmarking frameworks to assess model performance, robustness, and edge-case behavior while maintaining strict confidentiality of proprietary methodologies.
- Collaborating with the research team to iterate on experimental setups, optimize agent coordination strategies, and accelerate insights into model capabilities and limitations.

## PROJECTS

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### Collaborative Drawing

May 2025 – May 2025

Tech Stack : *Typescript, PostgreSQL, React, TailwindCSS, Websockets* | [GitHub](#)

- Built a real-time collaborative drawing tool using WebSockets and Pub/Sub architecture, enabling sub-100ms latency updates for up to 50 concurrent users. }
- Utilized p5.js to implement dynamic shape rendering—including squares, rectangles, and triangles—enabling real-time user interaction with shape parameters via numeric input, resulting in over 95% input responsiveness and below 50ms rendering delay .
- Designed a responsive UI using Tailwind CSS, achieving 100% cross-device compatibility and boosting user engagement time by over 40%.

### SignTrack

March 2025 – March 2025

Tech Stack : *Python, OpenCV, Tensorflow, React* | [GitHub](#)

- Developed a traffic signal detection tool that processes dashcam footage to count the number of traffic signals encountered during a drive.
- Implemented object detection using a pretrained YOLOv8 model fine-tuned for traffic light recognition in diverse lighting and weather conditions.
- Achieved 91% detection accuracy across urban and highway datasets while optimizing inference speed for real-time use

### AI-Powered Mental Health Chatbot

May 2025 – May 2025

Tech Stack : *LangChain, Gemini API, Python, FastAPI, PostgreSQL*

- Built an AI-driven mental health support chatbot designed to provide empathetic, context-aware conversations using large language models.
- Implemented LangChain-based conversational memory and prompt chaining to maintain user context and improve response quality across sessions.
- Developed a scalable backend with FastAPI and PostgreSQL, ensuring low-latency responses and secure storage of anonymized user interaction data.

## RESEARCH PUBLICATIONS

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### **Detection of Fake News**

*International Journal of All Research Education and Scientific Methods (IJARESM)*

July 2022

DOI : ISSN: 2455-6211

## TECHNICAL SKILLS

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**Languages and Frameworks:** C, C++, Python, Java, HTML, CSS, JavaScript, SQL, React, Node.js, Golang, Rust, Solidity, Redis, Monorepo, Turborepo, NextAuth, NextJs

**Expertise Area:** Machine Learning, Data Structures, Algorithms, Object-Oriented Design, Operating Systems, Database Management Systems

**Tools and Technologies:** Git, TensorFlow, PyTorch, Keras, Scikit learn, Tableau, Apache Servers, Pandas, NumPy, Postman, Docker, Google Cloud

## LEADERSHIP / EXTRACURRICULAR

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- Rated **1397** on **codeforces**
- Ranked among **Top 500** in the **National Mathematics Talent Contest** with over 60,000 registrations

## DECLARATION

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The above information is correct to the best of the knowledge. Any changes shall be informed to the concerned authorities.

Name: Anany Singh