



Mansi gupta

Computer Science Undergraduate | AI & ML Enthusiast |
Building Multi-Agent Systems

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🔗 <https://mansi-gupta2006.github.io/Portfolio/>

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👤 PROFILE

Computer Science Undergraduate | AI Research & Development Enthusiast | Hackathon Finalist

Passionate about Artificial Intelligence and emerging technologies, with hands-on experience in building advanced Multi-Agent Systems using LLMs (RAG, Gemini, AutoGen, CrewAI). Contributed to research-driven projects.

📁 PROFESSIONAL EXPERIENCE

05/2025 – 08/2025
France

Under Prof. Jean-Baptiste Rouquier, (France)

AI Research Intern

- Conducted research on **multi-agent systems and human-in-the-loop learning models** using large language models and retrieval-augmented generation (RAG).
- Explored the design of **interactive AI agents** for educational use cases, focusing on real-time response evaluation and agent memory.

04/2024 – 01/2025
Delhi, India

SmartEdge

Intern

- Contributed to the development of **AI-driven web platforms** focused on PropTech and sustainability (EcoZero Project).
- Participated in the **Google GenAI Hackathon**, developing a multi-agent learning assistant (Gadfly) using RAG, Gemini, and AutoGen.

07/2024 – 08/2024
Lucknow, India

Soft Pro India

Inter

- Developed backend services using Java with Spring Framework for an online portal.
- Collaborated with a cross-functional team and implemented RESTful APIs for seamless integration

📁 PROJECTS

Gadfly

A Socratic Multi-Agent AI Learning Assistant

Developed *Gadfly*, a Socratic AI learning assistant using multi-agent architecture with RAG, Gemini, AutoGen, and CrewAI. Focused on enhancing student engagement through intelligent dialogue and real-time context management. Presented at the **Google GenAI Hackathon** under SmartEdge.

Parth

A Multi-Agent Socratic Framework for Personalized Learning

Parth is a research-driven AI project developed under **Prof. Jean-Baptiste Rouquier**. It explores multi-agent systems using LLMs (RAG, Gemini, AutoGen) to deliver personalized, Socratic-style learning experiences. The project focuses on intelligent dialogue flow, agent coordination, and adaptive educational support.

EcoZero

Emission Analysis and Sustainability Reporting Platform
Developed *EcoZero in contribution*, a government-aligned web platform for carbon emission calculation, analysis, and reporting. Worked on full-stack development, interactive UI/UX, and real-time data visualization to support sustainable practices.

Sanketa: Gesture Control

Hand Gesture Recognition System for Human-Computer Interaction
Sanketa is a computer vision-based project that enables gesture-controlled interaction using a webcam. Utilized **MediaPipe** and **OpenCV** to detect and interpret hand gestures for controlling system functions, aiming to enhance accessibility and human-computer interaction.

Live Face Detection Model

Real-Time Face Detection Using Computer Vision
Developed a real-time face detection system using **OpenCV** and **Haar Cascade Classifiers**. The model captures live video feed via webcam, detects faces instantly, and highlights them with bounding boxes, demonstrating the fundamentals of object detection in computer vision.

Nalanda Open University E-gyan

Web-Based E-Learning Portal for Nalanda Open University
Contributed to the development of **E-Gyan**, an e-learning platform for Nalanda Open University during a live internship project. Worked on **Java with Spring Framework** to build and deploy modules for course access, student management, and admin functionalities, supporting remote education delivery.

Other Projects access GitHub

EDUCATION

2023 – 2026 Lucknow, India	Bachelors of Computer Application Modern Girl's College affiliated to University of Lucknow 3 Years Course
2021 – 2023 Lucknow, India	10+2 High School & Intermediate Rani Laxmi Bai School Commerce+ Information Practices

SKILLS

AI/ ML Large Language Models (LLMs), RAG, Gemini, AutoGen, CrewAI, NLP	● ● ● ● ●	Programming Languages Python, Java, JavaScript, HTML, CSS	● ● ● ● ●
Web Development Spring Framework, Flask, Bootstrap, Responsive UI/UX Design	● ● ● ● ●	Multi-Agent Systems Context Managers, Socratic Agents, Agent Coordination	● ● ● ● ●
Data Handling JSON, APIs, Real-time Data Processing	● ● ● ● ●	Computer Vision OpenCV, MediaPipe, Haar Cascade	● ● ● ● ●
Database MySQL	● ● ● ● ●	Team Collaboration	
Cognitive Flexibility			

CERTIFICATES

- Top 5 Finalist – Google GenAI Hackathon 2025
- Java with Spring Framework Internship Certificate
- Azure AI Fundamentals