



# Mansi Gupta

Department of Computer Application

Modern Girls' College affiliated to University of Lucknow

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## PROFESSIONAL SUMMARY

Dedicated 2nd-year BCA student with a robust academic foundation in Machine Learning (ML), Artificial Intelligence (AI), and Cybersecurity, complemented by hands-on experience in AI-driven projects and software development. Proven ability to innovate through hackathons, internships, and research initiatives, with a focus on prompt optimization, Data-Centric AI, and applied machine learning solutions. Actively seeking opportunities to contribute to cutting-edge AI research and pursue advanced studies for a master's degree under the mentorship of leading researchers.

## EDUCATION

### Bachelor of Computer Application

Modern Girls' College affiliated to University of Lucknow

📅 08/2023 - 07/2026 (3 year course) 📍 Lucknow, India

### High School & Intermediate (10+2)

Rani Laxmi Bai Memorial School (Commerce + Computer Applications)

📅 2021-2023 📍 Lucknow, India

## WORK EXPERIENCE

### Project Intern - Smart Edge

April 2024 – June 2024

- Collaborated with a team of 5 members to develop an innovative solution using AI technologies.
- Presented project outcomes effective analytical thinking and teamwork.

### Sofpro India Pvt. Ltd

#### Summer Intern - Java with Spring Framework

June 2024 – July 2024

- 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.

## TECHNICAL EXPERTISE

Object-Oriented Programming Languages: Python, Java

Chatbot Development

Machine Learning

Unreal Engine 5

Data Pre-Processing & Cleaning

MySQL (Database)

Data Structure & Algorithms

Full Stack Web Development UI/UX

Google AI Studios (Prompt Engineering)

Google Cloud (Vertex AI & RAG)

Kali Linux (Offensive)

Computer Networking

## SOFT SKILLS

- **Strategic Problem-Solving:** Designed AI models for educational guidance and predictive analysis.
- **Team Synergy and Leadership:** Collaborated with cross-functional teams on SmartEdge and Hackathon projects. Articulate Communication: Presented complex solutions to stakeholders clearly and effectively.
- **Cognitive Flexibility:** Adapted quickly to new technologies like MediaPipe and RAG module integration.
- **Meticulous Planning:** Managed timelines and deliverables for multiple projects simultaneously.

## PROJECTS

### 1. Gadfly: Socratic Personal Learning Assistant

([www.gadfly.pythonanywhere.com](http://www.gadfly.pythonanywhere.com))

Developed an AI-powered chatbot designed to enhance educational guidance using the Socratic method. Gadfly leverages the RAG module to provide accurate and interactive learning experiences, fostering critical thinking and deeper understanding for students.

### 2. Sanketa: Control Your PC with Sign Language

Developed an innovative system that enables users to control their PC using hand gestures. Utilizing Python, OpenCV, MediaPipe, and Pycaw, Sanketa interprets sign language to adjust system volume and perform other functions, enhancing accessibility and user interaction.

### 3. Live Face Detection Model

([https://github.com/Mansi-Gupta2006/Live\\_VideoCam\\_Face\\_Detection](https://github.com/Mansi-Gupta2006/Live_VideoCam_Face_Detection))

Designed a real-time face detection system using Python and OpenCV. This model accurately identifies and tracks faces through live camera feed, showcasing robust performance and potential applications in security and user interaction systems.

### 4. House Price Prediction (ML)

([https://github.com/Mansi-Gupta2006/Car\\_Price\\_Prediction\\_ML\\_Web\\_App](https://github.com/Mansi-Gupta2006/Car_Price_Prediction_ML_Web_App))

Developed a machine learning model using regression techniques to predict house prices with high accuracy.

## RESEARCH INTEREST

- Brain-Computer Interfaces (BCI) and Neurotechnology
- AI-powered VR and Immersive Experiences
- Deep Learning for Scene Flow Estimation and 3D Motion Analysis
- Cybersecurity Implications of Cognitive Systems

## ADDITIONAL ACCOMPLISHMENT

- Finalist in the **Google GenAI Exchange Hackathon** for developing an AI-powered learning assistant.
- Google Schwags Awarded by Google (2024).
- Successfully completed a 6-week internship and achieved the **Best Intern** on Java with Spring Framework at **Sofpro India**.
- Completed a Cyber Security Training from **Admegrade**, enhancing expertise in cybersecurity practices.
- Recognized for innovative contributions in AI and **SmartEdge** startup.
- Invited to **Microsoft** Office, Gurugram, India on Azure AI Day 2024.
- Led and coordinated my college's Tech Event, demonstrating leadership and effective teamwork.

# PERSONAL DETAILS

**Name:** Mansi Gupta

**Gender:** Female

**Nationality:** Indian

**Location:** Lucknow, India- 226028

**Passport:** Z8102997

**Languages Known:** English (Proficient), Hindi (Native), Spanish (Beginner)

**Hobby:** Playing Guitar

# REFERENCE

Dr. Vivek Gupta (Dean) Modern Girls College of Professional Studies, Lucknow

Mrs. Parul Rastogi (Professor) Modern Girls College of Professional Studies, Lucknow