

# Durga Sharma

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## EDUCATION

**Guru Gobind Singh Indraprastha University**

June 2026

*Bachelor of Technology in Artificial Intelligence and Machine Learning*

## SKILLS

**Languages:** C/C++, Python

## RELEVANT COURSEWORK

**Courses:** Machine Learning, Data Mining and Data Warehouse, Operation System, Discrete Math, Linear Algebra, Natural Language Processing, Large Language Models, Advanced Graph Theory, Computer Vision

## PUBLICATION

**Cyberbullying Trends in Indian Sports - A Sentiment Analysis of Twitter Feeds**

**Durga Sharma, Rahul Johari**

*Springer's 2nd International Conference on Data and Information Sciences @ **ICDIS**, 2024*

## SELECTED RESEARCH PROJECTS

**Translation of Code-Mixed and Code-Switched Tweets Using LLMs**

July 2024 - September 2024

With: **Prof. Rahul Johari** | CODS-COMAD 2024 @ **Poster** | *USAR*

- Evaluated Hugging Face models, OpenAI and Anthropic for translating and analyzing code-mixed and code-switched tweets, enhancing sentiment accuracy.
- Benchmarked LLMs to determine the best model for accurate sentiment analysis of mixed-language content.

**Social Media Sentiment Analysis Using Graph Neural Networks**

February 2024 - May 2024

With: **Prof. Rahul Johari** | *USAR*

- Analyzed 30,000 tweets about Indian athletes over six months, using 'googletrans' to translate non-English tweets and 'nltk' for sentiment analysis, scoring each tweet from -1 to +1.
- Created sentiment vs. time and average sentiment vs. time graphs to track and visualize changing public sentiments towards athletes.

## EXPERIENCE

**CODS-COMAD 2024** | *Poster Presentation*

December 2024

Presented a poster on my research, held at IIT Jodhpur

**Aashray Foundation** | *Teaching Volunteer*

September 2024 - Present

Volunteer at Foundation's Pathshala, teaching Maths, English, and other subjects to young children.

**ACM India Winter School**

December 2023

Data Science for Social Good, SRM Chennai

**USS ACM Student Chapter** | *Vice Chair*

December 2022 - Present

Actively contributed as an Executive Member and Team Lead, before taking on as the Vice Chair, fostering community engagement and technological innovation.

**Google Developer Student Club** | *Core Team Member*

November 2023 - August 2024

Served as a Core Team Member, facilitating workshops and initiatives to empower students in technology.

**ACM India Summer School**

June 2023

Cybersecurity, SSN Chennai