

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, Probability and Statistics, Discrete Math, Linear Algebra, Natural Language Processing, Large Language Models, Deep Learning for NLP, Advanced Graph Theory, Computer Vision

PUBLICATION

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

Durga Sharma, Rahul Johari

Springer's Advances in 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 Content Head, 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