

# KOMAL MATHUR

(+91) 8527845810 [◇ komlixmathur@gmail.com](mailto:komlixmathur@gmail.com)

[LinkedIn](#) [GitHub](#)

## EDUCATION

**Bachelor of Computer Science**, Manipal Institute of Technology

2022 - 2026

CGPA: 9.95/10

**Rank: 1/2684 1st in CSE Department**

## PUBLICATIONS

**EMNLP 2023** Bangla Sentiment Analysis using Weighted and Majority Voted Fine-Tuned Transformers. Seth, P., Goel, R., Mathur, K., Vemulapalli, S. (2023) [ACL Anthology](#)

## EXPERIENCE

**Generative AI Intern**

May 2024

Info Edge, Naukri.com

Greater Noida, UP

- Building a robust MCQ Question Generation pipeline using gpt-4o, ensuring complete automation through integration with MySQL and
- Reduced token usage and optimized prompts, ensuring cost-effectiveness and scalability.

**Samsung PRISM Intern**

April 2024

Samsung R&D Institute India

Mangalore, Karnataka

- Pioneering Effective LLM Tokenization for Smart Home Events
- Focused on techniques for integrating RAG to reduce the need for frequent LLM fine-tuning, enabling real-time processing of smart home events.

**AI Research Intern**

September 2023

Department of ICT

MIT Manipal

- Working on Multimodal Deception detection under Dr. Nisha Shetty
- Proposed a novel architecture using the feature embeddings from multiple modalities and combining using latent space.

## SKILLS

**Programming Languages**

C++, C, Java, Python

**Technologies**

MySQL, NLP, Generative AI, Computer Vision, OpenCV, HuggingFace

**Soft Skills**

Problem solving, Leadership, Teamwork, Communication

## PROJECTS

**Hey Taxii App** - Developed a ride-share web application using MySQL, SQL Alchemy, Python and HTML, equipped with the Google Maps API [GitHub](#)

**Student Performance Indicator** - Developed an AI driven performance predictor using Modular Programming in python complete with deployment using Microsoft Azure Services (MLOps) and Github Actions [GitHub](#)

## AWARDS & ACHIEVEMENTS

- Ranked among **Top 50** applicants to the 5th Cohort of Women in Engineering supported by **Google**, and offered **100% scholarship** and a reward of **Rs. 100,000**
- Awarded the Director's **Diamond Jubilee Award** for being ranked 1/2684 students in the first year.
- Received **Achiever's Scholarship** worth Rs.1,01,800 for academic excellence in the first year