KOMAL MATHUR

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[LinkedIn](#)   [GitHub](#)   [Google Scholar](#)   [Website](#)

EDUCATION

B.Tech Computer Science Engineering, Manipal Institute of Technology   2022 - 2026
CGPA: 9.87/10 — Rank: 1/2684, **1st in CSE Department**

High School (PCM), Lotus Valley International School — **98.6%** in 12th CBSE **(School Topper)**   2008 - 2022

EXPERIENCE

Software Developer Intern @ Bank of New York (BNY)   May - July 2025
- Built an Angular App Builder and CICD pipeline, reducing mobile app deployment time by 60% through streamlined metadata and asset management.
- Built and shipped a VS Code Copilot extension leveraging internal knowledge bases to auto-generate context-aware UI code, ensuring compliance and reducing developer overhead.

Counter-terrorism Research @ Meta, Mythos Labs   August - December 2024
- Fine-tuned Llama 3.2 for automated de-radicalization monitoring, with real-time dashboards ranking risk scores
- Scoped, prototyped, and tested ML features with international stakeholders (Meta, OSCE), learning full-cycle ownership of applied AI systems, and called to attend conference at Tashkent.

GenAI Intern @ Info Edge, Naukri.com   May - July 2024
- Developed an automated Question Generation pipeline with GPT-4o and MySQL, replacing legacy processes.

Samsung PRISM Intern @ Samsung R&D India   April 2024 - Jan 2025
- Decreased LLM fine-tuning needs by 60% via tokenization and RAG for Smart Home Events

Technical Head + AI Subsystem Head @ Research Society Manipal   October 2024
- Leading a team of over 200 students pursuing undergraduate research, focusing on Bias Mitigation in LLMs

SKILLS

Programming Languages	C/C++, Python, Java, Typescript, Javascript, HTML CSS, Swift
Frameworks & Tools	SQL, Angular, Django, MongoDB, RESTful APIs, NodeJS, Automation, Git
Relevant Coursework	Data Structures, OOPs, Data Analysis, Database Systems, System Design, Operating Systems, Computer Networks, Software Engineering, Software Testing

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](#)

AWARDS & ACHIEVEMENTS

- Achieved **1st place globally** among 699 teams from 102 countries in the **CyberAI Cup 2024**, organized by the 15th International Cyber Security Data-Mining Society (ICSDS) in **Auckland, New Zealand**.
- Awarded the Director's **Diamond Jubilee Award** for being ranked 1/2684 students in the 1st, 2nd & 3rd year
- Received **Achiever's Scholarship** worth Rs.1,01,800 for academic excellence in the 1st, 2nd & 3rd year

PROJECTS

Hey Taxii App - Ride-share web app using SQL Alchemy, Python, HTML, and the Google Maps API [GitHub](#)

Twitter Clone - Built using React.js, MongoDB, Node.js, Express, Tailwind and JWT for authentication [GitHub](#)