Gagan Kumar

Member Technical Staff (MTS)
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EDUCATION

| **National Institute of Technology, Warangal** | **CGPA: 8.82** |
| *Master of Technology (Computer Science and Information Security)* | *2023-2025* |

| **University Of Allahabad, Prayagraj** | **CGPA: 9.023** |
| *Bachelor of Technology (Computer Science and Engineering)* | *2019-2023* |

PROJECTS

- **Multi-threaded Chat Application in Java** — *Feb 2024 - Apr 2024*
  - Developed a multi-threaded chat application in Java utilizing socket programming, where the server handles multiple client connections concurrently. Implemented using threads, the application allows clients to send and receive messages in real-time, enhancing communication efficiency.
  - Tools: Java, Ubuntu 20.04 LTS, Open-JDK, Socket Programming, Multithreading.

- **Text Summarization Using Attention Mechanism** — *Feb 2024 - May 2024*
  - Implemented a hybrid text summarization model combining Transformer-based abstractive and ranking-based extractive techniques, achieving a notable 14% accuracy improvement over baseline models. Validated through ROUGE metrics.
  - Tools: Python, TensorFlow, NLP libraries, ROUGE Evaluation Metrics.

- **Image Gallery: A frontend project using HTML, CSS, and JavaScript** — *Jan 2024 - June 2024*
  - Developed an Infinite Scroll Image Gallery using Pixabay API, supporting dynamic image loading, customizable layout, dark mode toggle, and interactive keyboard navigation for enhanced user experience.
  - Tools: JavaScript, HTML/CSS, Pixabay API, Visual Studio.

TECHNICAL SKILLS

Languages: C, C++(proficient), Python(familiar), Java(familiar) , SQL
Developer Tools: MySQL Workbench, Git, Visual Studio, Google Colab, Anaconda
Databases: MySQL
Operating Systems: Linux(Ubuntu), Windows
Coursework: Data Structures and Algorithms, DBMS, OOPs, Operating Systems, Computer Networks , Web and Database Security , Machine learning , Deep learning, Cryptography , Network Security
Interests: Database Designing, Database Security , System Testing , Data Science

ACHIEVEMENTS

- Achieved AIR-1210 and 98.4 percentile in GATE 2023, along with AIR-61253 and 95.5 percentile in JEE Main 2019.

- Awarded first prize in the Senior category of the district Science Competition in 2016 in Jhansi, surpassing 500+ science models.

POSITIONS OF RESPONSIBILITY

- **Teaching Assistant:** *Programming & Data Structures , Advance Computer Networks , Design Thinking*

- **Collaborative Head of E-code:** *E-code Coding Club, University of Allahabad*

- **Coordinator at EntwicklersX:** *EntwicklersX Coding Club, University of Allahabad*