



**Sameer Rehman**  
Enrollment No: 2023BITE042  
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	National Institute of Technology, Srinagar	7.66 (Current)	2023-Present
Senior Secondary	CBSE Board	92.4%	2023

PROJECTS

- **Context-Aware Semantic Research Paper Search Engine**

December 2025

Independent

Github

– Built a semantic research paper retrieval system using MiniLM embeddings and FAISS for dense vector search.

– Implemented session-level context awareness by reweighting results using embeddings of previous user queries to preserve search intent.

– Designed a RAG pipeline where GPT-4o generates summaries strictly grounded in retrieved context, reducing hallucinations.
- **CNN-Based Image Classification System (CIFAR-10)**

August 2025

Independent

Github

– Designed and trained a custom CNN model in PyTorch for CIFAR-10 image classification, achieving 80% test accuracy.

– Applied data augmentation techniques and input normalization strategies to improve generalization and reduce overfitting.

– Deployed the trained model as an interactive web-based demo on Hugging Face Spaces using Gradio for real-time inference.
- **Face Mask Detection using CNNs**

July 2025

Independent

Github

– Implemented a Convolutional Neural Network (CNN) in PyTorch to classify images of people wearing or not wearing masks.

– Trained on the Face Mask Detection Dataset (publicly available on Kaggle), achieving 95% test accuracy after hyperparameter tuning.

– Deployed model pipeline with real-time inference support using OpenCV, demonstrating potential applications in healthcare and safety compliance.

TECHNICAL SKILLS

- **Programming:** Python, C/C++, SQL, Java
- **Frameworks:** PyTorch, Pandas, Matplotlib, Seaborn, NumPy
- **Web & Tools:** HTML, CSS, JavaScript, Git, GitHub Actions, Docker
- **Operating Systems:** MacOS, Ubuntu, Windows

KEY COURSES TAKEN

- **Mathematics:** Linear Algebra, Calculus, Discrete Maths, Probability & Statistics
- **Computer Science:** Operating Systems, DBMS, Data Structures and Algorithms, Computer Architecture, Artificial Intelligence
- **Electronics:** Digital Logic, Communication Systems, Electronic Devices

ACHIEVEMENTS

- **State Topper (Jammu and Kashmir),CCCC Cryptic Crossword Competiton**

2019