



Sameer Rehman

Enrollment No: 2023BITE042

Btech - Informtaion Technology

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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*