

# Daniyal Ahmed

6606 Demoss, Dr Houston, Tx, 77074

📞 857-415-9179

✉ [daniyala@bu.edu](mailto:daniyala@bu.edu)

🌐 [LinkedIn](#)

🐙 [Github](#)

🐙 [HuggingFace](#)

## Education

### Boston University

Bachelors in Computer Science - Gpa: 3.5

May 2025

Boston, Massachusetts

## Relevant Coursework

- Algorithms Analysis
- Software Engineering
- Computer Systems
- Applications in Data Science

## Experience

### Boston University Medical Campus

Research Assistant

July 2023 – Present

Boston, Massachusetts

- Enhanced GPU and CPU performance by 30% through targeted optimizations, significantly improving computational efficiency in research applications.
- Managed and optimized particle extraction processes using Relion and Cryolo, increasing data throughput by 25% and enhancing image processing accuracy.
- Leveraged expertise in Bash, Linux, and Docker to streamline research processes, boosting productivity by 70% through the automation of data management and computational tasks.

### Boston University CGS

Security Assistant

January 2022 – December 2022

Boston, Massachusetts

- Conducted detailed inventory audits for over 2,000 items bi-annually, identifying and rectifying discrepancies that reduced inventory errors by 95% and improved operational efficiency across the department.

## Projects

### Scikit-learn in C++ and Python | C++, Python, Machine Learning

July 2024

- Implemented various machine learning algorithms including K-Nearest Neighbors (KNN), Decision Trees, Random Forests, and Naive Bayes in C++, and programmed neural networks in Jupyter Notebooks using Python to facilitate learning and accessibility for others.
- Integrated comprehensive documentation and usage examples within the codebase, making it accessible and user-friendly for other developers and researchers.

### A.I Fake News Generator | Python, React, Javascript, Large Language Models

June 2024

- Fine-tuned GPT-Neo 125M model for specific news domains, optimizing performance for various categories such as politics.
- Documented the entire project workflow on GitHub, encompassing over 1,000 lines of annotated code and detailed guides for data handling and model tuning.
- Integrated model into a user-friendly application, allowing users to input keywords and receive generated news articles in real-time.

### Deck - A Full-Stack News App | Python, React, Javascript

March 2024

- Integrated News API and Reddit API to aggregate real-time, comprehensive news data for a full-stack news application, enhancing content diversity and user engagement by enabling access to over 1000 daily news articles from diverse sources.
- Spearheaded development and strategically assigned roles and tasks to 15 team members, optimizing team dynamics and project workflow, which resulted in a 50% increase in development productivity and reduced project completion time by 30%.

## Technical Skills

**Languages:** Python, Java, C, HTML/CSS, JavaScript, React

**Technologies/Frameworks:** Linux, HuggingFace, GitHub, Docker

## Extracurriculars

**BUILDS:** Actively mentored over 20 team members weekly in Machine Learning and Software Engineering, enhancing their project completion rates by 40% and contributing to the successful development of 10+ innovative tech projects annually.