

March 21, 2024

Dear Sir,

I am writing to express my strong interest in contributing to the project "Lossless compression of raw data for the ATLAS experiment at CERN." With a solid foundation in computer engineering and hands-on experience with compression algorithms, I am excited about the opportunity to apply my skills to address the challenges faced by the increasing data rates at the ATLAS experiment.

During my academic journey at Aligarh Muslim University, I have acquired proficiency in C/C++, Python, and Java, along with a solid understanding of various compression techniques such as Huffman coding and Run-Length Encoding (RLE). My coursework and projects have equipped me with the necessary analytical and problem-solving skills to tackle complex challenges in computer science.

I am particularly excited about the opportunity to implement state-of-the-art compression algorithms such as zstandard and brotli and evaluate their performance in terms of compression ratio and speed. I am confident that my dedication, adaptability, and strong work ethic make me well-suited to contribute effectively to this project.

Thank you for considering my application. I look forward to the opportunity to further discuss how my skills and experience align with the needs of the project.

Sincerely,

Mohammad Wassaf Ali