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PROJECTS

BRLT - Bhartiya Regional Language Translator

- Developed a neural network-based tool for translating text from Official English to various Official Indian languages.
- Leveraged deep learning techniques and Natural Language Processing algorithms to achieve accurate translations.
- Implemented state-of-the-art neural network architectures such as Transformer models for efficient translation.
- Validated the accuracy and fluency of translations through rigorous evaluation metrics and user feedback, ensuring high-quality language translations.
- Contributed to bridging linguistic barriers and promoting accessibility by providing seamless translation services between Official English and Indian languages.

DSA based Data Compressor

- Developed a data compression and decompression tool using advanced data structures and algorithms.
- Implemented Huffman coding algorithm for lossless compression, achieving efficient reduction in data size.
- Utilized priority queues and binary trees for constructing Huffman trees and encoding/decoding data.
- Enhanced performance through optimized algorithms for frequency counting and bit manipulation.
- Validated the tool's effectiveness through extensive testing on various types of data, demonstrating significant reduction in file sizes while preserving data integrity.

Coding Platforms

HackerRank- @akp28may

GeeksforGeeks- @akp28s6my

SKILLS

Python | C++ | DSA | ML | DL | Neural Networks | GitHub | Project Management |

Communication | Leadership | Time Management | Adaptability | Problem Solving | Teamwork |

Creativity