PLAGIARISM CHECK.ORG

0% SIMILARITY OVERALL

0.00% POTENTIALLY AI

SCANNED ON: 28 APR 2025, 11:11 AM

AI Detector Results

Highlighted sentences with the lowest perplexity, most likely generated by AI.

LIKELY AI 0%

HIGHLY LIKELY AI 0%

Report #26071761

This study focuses on building a Multimodal Large Language Model (MLLM) to automate clinical report generation by combining medical images, clinical notes, and structured healthcare data. Traditional unimodal approaches often lead to fragmented insights, thus, we need a models that can interpret many types of healthcare data combined to enhance diagnostic accuracy and reduce the physician's workload. Earlier models like CLIP and BLIP lack precise healthcare adaptations. This research proposes using a Vision Transformer for image features and a transformer LLM for clinical text, fused via cross-attention and enhanced using retrieval-augmented generation. Fine-tuning will leverage datasets such as MIMIC-CXR and IU-Xray. Evaluation will use BLEU, ROUGE, and Meteor metrics. The outcome aims for accurate, context-rich clinical reports and reduced clinician burden.