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Enhancing cloud security using coverless text steganography

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Description The use of covert text steganography to send sensitive data across a covert communication channel significantly enhances cloud security. While traditional cloud security methods primarily focus on encryption to protect data, our innovative technique diverges by integrating advanced steganography with a novel approach. In contrast to conventional coverless text steganography methods, our technique introduces a robust mechanism for embedding confidential data within generated cover text. Our method leverages a pretrained text generation model to produce the cover text, ensuring it appears natural and contextually appropriate. The secret information is then embedded into this cover text through a series of operations, including XOR operations, unique character insertion, and sophisticated mapping techniques. These processes ensure that the embedded cover text retains its readability and plausibility, making ...

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