

Steganographic Metadata Embedding to Trace the Footprint of ChatApp Images

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Abstract: *This research paper proposes a method to trace the footprint of senders while forwarding of images on ChatApp by embedding metadata (such as mobile numbers) using Least Significant Bit (LSB) steganography. The technique ensures that the hidden information is imperceptible to users and remains intact even after ChatApp's image compression. The method allows for tracking the digital footprint of images, providing traceability to combat misinformation, piracy, and privacy concerns. The system is robust, enabling metadata recovery after multiple shares, with applications in digital forensics, media integrity, and monitoring the spread of viral content*

Keywords: LSB, Steganography, Metadata, Imperceptibility, Data-Hiding, Cryptography

