DECLARATION

I hereby declare that this submission is my own work and that, to the best of my knowledge and belief, it contains no material previously published or written by another person nor material which to a substantial extent has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text.

Signature

Name   Nagendra Singh

Roll No. 0802910055

Date:

Signature

Name Ajit Kumar Yadav

Roll No. 0802910007

Date:

CERTIFICATE

This is to certify that Project Report entitled **"IMPLEMENTATION OF STEGANOGRAPHY"** which is submitted by **Nagendra singh**, **Ajit kumar yadav** in partial fulfillment of the requirement for the award of degree B. Tech. in Department of Computer Science & Engineering of G. B. Technical University, is a record of the candidate own work carried out by him under my supervision. The matter embodied in this report is original and has not been submitted for the award of any other degree.

Date: **Supervisor**

                                                                            Jaiveer Singh

ACKNOWLEDGEMENT

It gives us a great sense of pleasure to present the report of the B. Tech Project undertaken during B. Tech. Final Year. We owe special debt of gratitude to Professor Jaiveer Singh, Department of Computer Science & Engineering, KIET School of Engineering and Technology, Ghaziabad, for his constant support and guidance throughout the course of our work. His sincerity, thoroughness and perseverance have been a constant source of inspiration for us. It is only his cognizant efforts that our endeavors have seen light of the day.

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We also do not like to miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind assistance and cooperation during the development of our project. Last but not the least, we acknowledge our friends for their contribution in the completion of the project.

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ABSTRACT

The project entitled Information hiding for Multimedia Application is the application developed to embed a doc file in another video or text or audio signal using java technology. It is concerned with embedding information in an innocuous cover Speech in a secure and robust manner. This system makes the Files more secure by using the concepts Steganography .

Steganography, is the art of hiding messages inside other messages such that the very existence of the message is unknown to third party. The goal of cryptography is to make data unreadable by a third party, the goal of Steganography is to hide the data from a third party through the use of advanced computer software, authors of images and software can place a hidden trademark in their product, allowing them to keep a check on piracy. This is commonly known as watermarking. Hiding serial numbers or a set of characters that distinguishes an object from a similar object is known as finger printing. Together, these two are intended to fight piracy. The latter is used to detect copyright violators and the former is used to prosecute them. But these are only examples of the much wider field of Steganography.

*Steganography is the art of hiding information in ways that prevent the detection of hidden messages. Steganography, derived from Greek, literally means "**covered writing**." It includes a vast array of secret communications methods that conceal the message's very existence. These methods include invisible inks,microdots, character arrangement, digital signatures,covert channels, and spread spectrum communications.*

BPCS-Steganography (Bit-Plane Complexity Segmentation Steganography) is a type of digital steganography. Digital steganography can hide confidential data (i.e., secret files) very securely by embedding them into some media data called "vessel data." The vessel data is also referred to as "carrier, cover, or dummy data". In BPCS-Steganography true color images (i.e., 24-bit color images) are mostly used for vessel data

LIST OF FIGURES

LIST OF ABBREVIATIONS

LSB   Least significant bits

DCT   Discrete Courier Transform

JPEG   Joint Photographic Experts Group

DW   Digital watermarking

TEA   Tiny Encryption Algorithm (TEA)

XORrd   Exclusive-or-ed

ICMP   Internet control massage protocol

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