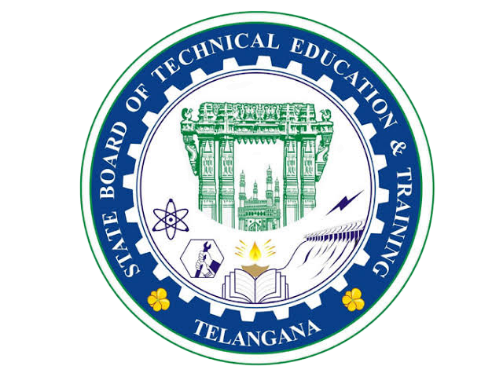
A PROJECT REPORT

ON

**IMAGE STEGANOGRAPHY**

A dissertation submitted to TS SBTET in Partial fulfillment of the requirement for the award of

**DIPLOMA IN COMPUTER ENGINEERING**



**SUBMITTED BY**

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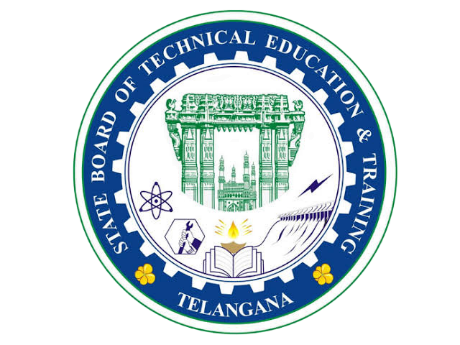
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#### **2022-2023**

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**CERTIFICATE**

This is to certify that the dissertation work entitled **“IMAGE STEGANOGRAPHY”** are the work done by

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submitted in partial fulfillment for the award of **DIPLOMA IN COMPUTER ENGINEERING** and submitted to the State Board of Technical Education and Training (TS), Hyderabad. It is record of bonafide work carried out by them under our guidance and supervision. The results embodied in this project report have not been submitted to any other institutions for the award of Diploma.

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**DECLARATION**

We students of Diploma in **“Computer Science and Engineering”** hereby declare that the results in this dissertation work entitled **“IMAGE STEGANOGRAPHY”** is the bonafide work done and carried out during the year 2022-2023 in partial fulfillment of the academic requirements for the award of **“Diploma in Computer Science and Engineering”** from **GOVERNMENT POLYTECHNIC, SIDDIPET**. This project was done under the supervision of **Sri Mr. NITIN PAWAR,** **M.S (BITS, PILANI), (M.TECH, OU),** Head of **Computer Science and Engineering** Department. Further, we declare that the report has not been submitted to any other institute or university for award of any other degree.

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**ABSTRACT**

In this modern era, one of the major issues is to protect the secrecy of confidential data during their transmission over a public channel. So, we need a security over the data which is being transmitted. To achieve this the powerful security, Steganography is needed.

Steganography is the practice of concealing the secret message with digital images, audio and video files. The main objective of our project is to hide the data with an image which is the collection of pixels usually stored in 24bit, it is nothing but image steganography based on GUI.

Our Project aims to use the technique is LSB (Least Significant Bit) and the algorithm is spatial domain method, so, that the human eye would not notice the hidden messages within it. RGB is the color model in which each pixel is 3 bytes, uses LSB to hide the data in three color channels. RGB images where each pixel is represented by three bytes indicating the intensity of red, green and blue in which each primary color represented 8 bits. We use bmp image format as it contains uncompressed data while pixels are chosen as random rather than in order.

For implementing our project, the interactive language python with some packages is used. Robustness, hiding capacity, Perceptual Transparency are important features of steganography which made it strong, can transfer data more securely.