**SECURE BANKING WITH ENCRYPTED IMAGE BASED ON IMAGE IMPORTANCE**

**A PROJECT REPORT**

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**BONAFIDE CERTIFICATE**

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**ABSTRACT**

The visual security of encrypted images is a critical aspect of information security in the digital age. Encrypted images ensure that confidential data remains protected during transmission and storage. However, the encrypted images must also be visually secure, meaning that they should not reveal any information about the underlying content, even to an attacker with complete access to the encrypted image. Achieving visual security of encrypted images requires the use of advanced cryptographic techniques . This paper explores the current state-of-the-art techniques in visual security of encrypted images and their applications in various domains. Visual security of perceptually encrypted image based on image importance is an essential area of research in information security. Perceptual encryption techniques aim to preserve the visual quality of encrypted images while ensuring their security. However, the importance of the image being encrypted can vary, and thus, the level of encryption required to secure the image may differ.

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**LIST OF ABBREVIATION**

|  |  |
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| **ABBREVIATION** | **EXPANSION** |
| AES | Advanced Encryption Standard |
| CCP | Cued Click Point |
| SHA | Secure Hash Algorithm |
| PEID | Perceptually encrypted image database |
| IQA | Image quality assessment |
| CNN | Convolutional Neural Network |
| VSI | Visual Security Index |
| MTVS | Multi-task Visual Security |