Team Name: *Plugged In*
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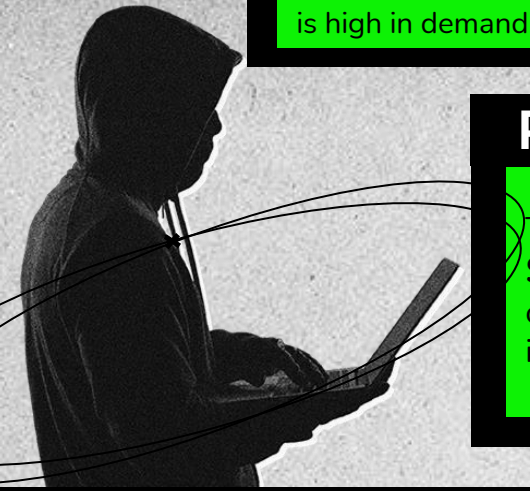
Project: *Steganography*

PROBLEM STATEMENT

In the present age of technology, safeguarding sensitive data is necessary. Prevailing ways of **safe communication generally use encryption** yet they can bring or **attract undesirable scrutiny** when or if pried upon and additionally the encrypted text or messages can bring up doubt themselves. Undetectable communication technique that safeguards privacy of crucial data is high in demand.



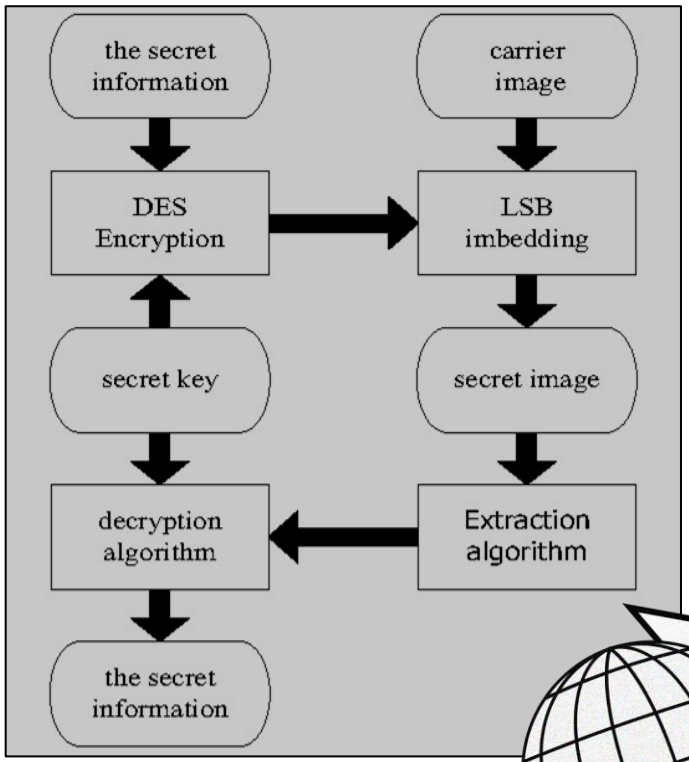
PROPOSED SOLUTION

The solution we present here answers the problem by the employment of **Steganography** technique. Steganography provides one of the kind methods or ways to safeguard communication through **masking classified or private text** in a **non-suspicious looking digital media like images, audios and videos.**

Tech Stacks: Python, HTML, CSS, JavaScript

××× Use Cases

Work Flow



01

Secure Communication

Steganography enables user to transmit sensitive information securely by hiding messages within various Multi-medias

02

Digital Watermarking

It also provides content creators with a means to embed their copyright information / ownership details into any digital media files.

03

Covert Communication

Facilitating covert communication channels for individuals who need to exchange confidential / personal messages discreetly.

04

Data Hiding

It offers a method for hiding data within images, audio, video etc. for purposes such as digital forensics or espionage.

Advantages

Enhanced Security

Concealed messages can not be easily recognized by unauthorized parties, providing an additional layer of security during communication.

Versatility

Our steganography tools can be applied to various types of digital multi-media, including images, audio files, and videos.

Anonimity

Users can communicate discreetly without attracting attention to the fact that a hidden message is being exchanged.

Dependencies

Python

Core programming language used because of it's easy to use feature.

Pillow Library

Python Imaging Library (PIL), used for image processing tasks.

HTML CSS JS

For frontend designing and to showcase the functioning of the python program (accepting input and show output).

Business Model

01

Freemium Model

We will offer a **basic version** of our **steganography tool for free**, allowing users to encode and decode messages within digital images with limited features and capacity.

02

Subscription Plan

To **unlock premium features** and higher message capacity, users need to **subscribe to monthly/annual plans**. These will offer additional functionalities such as enhanced encryption options, increased message size limits and many more.

03

Ads & Sponsorships

We may try to grab opportunities to **advertise and sponsorship** to generate **additional revenue**. This could include sponsored content or targeted advertising within our website, or partnerships with relevant industry events and conferences.

04

Consulting & Training

In addition to our offerings, we will provide **consulting services to assist** organizations in the **implementation of steganography solutions** effectively by **offering training programs** to educate users for secure communication and data protection.