Web Engineering Package Abstract

SENSITIVE DATA EXPOSURE DETECTION IN IMAGES

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Sensitive data exposure is the accidental or deliberate disclosure of critical information, such as personally identifiable information, payment card information, electronic protected health information, and intellectual property. Sensitive data exposure can have serious consequences for both individuals and organizations. Individuals whose sensitive data is exposed may be at risk of identity theft, financial fraud, and other crimes. Organizations that experience sensitive data exposure may face regulatory fines, reputational damage, and lost business.

Likewise, Sensitive data exposure can also happen in images. Sensitive data exposure in images can be hazardous because it can be difficult to detect and prevent. For example, someone may post a credit card picture on social media without realizing they are exposing their sensitive data.

This project is completely about sensitive data exposure in images and its detection through a web application. It can basically browse any local directory in a system for any file you want and detect any misplaced/intentionally placed sensitive data in images through steganography and report it to us. This program uses Flask as a framework for the web app. It also uses machine learning to classify images as sensitive or non-sensitive. The machine learning model used by the web app could be trained on a dataset of images that contain sensitive data, such as credit cards, social security numbers, and passports. The model could also be trained on a dataset of images that do not contain sensitive data, such as landscapes and animals. Once the machine learning model is trained, it can be deployed as a web app. Users can then access the web app and upload images to be classified. The web app will then classify the image and warn the user if it contains sensitive information. This web app could be used by individuals or businesses to protect the exposure or loss of sensitive data.