

Design and Implementation of Facial recognition security system for web-based applications.

Abstract :

Web applications often rely on username and password as the primary method for security. Although this method has been widely used, it has some serious limitations.

Weak passwords and password-guessing software make it an attractive target for hackers to gain access to sensitive data. To improve website security, face recognition systems can be integrated into web-based applications.

Face++ is a computer vision platform that uses deep learning algorithms, such as convolutional neural networks (CNNs), recurrent neural networks (RNNs), and generative adversarial networks (GANs). Face++ provides face-related services such as detection, recognition, and analysis. RNNs are used for face tracking, while GANs can be used to generate synthetic face images.

The integration of Face++ into web applications can improve security and overcome some of the limitations of traditional username and password approach. Hence, this research has developed a website that integrates face recognition login techniques. Overall, (90%) accuracy in detecting authenticated users' faces has been obtained.