

ABSTRACT

This study proposes the development of an interactive web application incorporating Deep Learning Convolutional Neural Networks (CNN) for facial recognition, aiming to transform traditional office spaces into intelligent environments. The system will encompass face detection, localization, identification, and image preprocessing. The selection of Deep Learning CNN is motivated by its superior performance in data classification, ability to process images without manual labeling, and potential for emotion recognition. The project will involve a comprehensive literature review, system design, implementation, and rigorous evaluation using blackbox testing.

Keywords: *Web Application, Face Recognition, Deep Learning CNN, Blackbox Testing, Smart Office, Integration.*