ABSTRACT

DEVELOPMENT OF A DEEP LEARNING MODEL FOR FACIAL RECOGNITION IN IIB DARMAJAYA INFORMATICS ENGINEERING STUDY PROGRAM SECURITY SYSTEM

By:

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This research aims to develop a Deep Learning model uses Convolutional Neural Network (CNN), improve security systems based on facial recognition in Informatics Engineering Study Program Institute of Informatics and Business Darmajaya systems. The CNN method has been proven effective in complex pattern recognition tasks such as human faces. By implementing advanced techniques in CNN architecture, this research produces a model capable of recognizing faces with high accuracy and response. The result model is integrated with security system for user authentication. The results of this research are expected to contribute to improving the security system in IIB Darmajaya Informatics Engineering Study Program.

Keywords: Face recognition, Deep Learning, Convolutional Neural Network, Security system, Accuracy.