A

Project Report

On

FAKE CURRENCY DETECTION USING CONVOLUTIONAL NEURAL NETWORK

Submitted to

Department of

Computer Science and Engineering

By

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project entitled "**FAKE CURRENCY DETECTION USING CONVOLUTIONAL NEURAL NETWORK**" is submitted by ETIKALA ANJALI(206Y1A0526), BIKKINENI JAHNAVI(206Y1A0512), FARIYA NAAZ(206Y1A0527) and BANOTHU KALYANI(206Y1A0509) to the department of Computer Science and Engineering during academic year 2022-23.

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1. ABSTRACT

Counterfeit money refers to fake or imitation currency that is produced with an idea to deceive. According to recent reports, demonetization led to all-time high inflow of fake notes into banks, resulting in a spike in suspicious transactions. The existing works to detect a counterfeit note are mostly based on image processing techniques. This paper deals with Deep Learning in which a convolution neural network (CNN) model is built with a motive to identify a counterfeit note on handy devices like smart phones, tablets. The model built was trained and tested on a self–generated dataset. Images are acquired using the smart phone camera and fed to the CNN network. The results obtained are encouraging and can be improvised by further research and improvements in the architecture of Deep CNN model. After training Custom CNN giving more than 90% validation accuracy and we have coded this project using JUPYTER notebook.

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