

A  
Project Report  
On  
**FAKE CURRENCY DETECTION  
USING CONVOLUTIONAL NEURAL NETWORK**  
*Submitted to*

Department of  
**Computer Science and Engineering**

By

ETIKALA ANJALI	(206Y1A0526)
BIKKINENI JAHNAVI	(206Y1A0512)
FARIYA NAAZ	(206Y1A0527)
BANOTHU KALYANI	(206Y1A0509)

Under the guidance  
Of  
**Mr.K.RANGANATH**  
Asst.Professor



**Department of Computer Science & Engineering**  
**SUMATHI REDDY INSTITUTE OF TECHNOLOGY for WOMEN**

*(Approved by AICTE, New Delhi; Affiliated to JNTU, Hyderabad)*  
Ananthasagar(Vill), Hasanparthy(M), Warangal – 506 371 (A.P.), Website : [www.sritw.org](http://www.sritw.org)

**2022-2023**



*Rajani*  
**PRINCIPAL**  
Sumathi Reddy Institute of Technology for Women  
Ananthasagar (V), Hasanparthy (M)  
WARANGAL - 506 371 (T.S.)

# SUMATHI REDDY INSTITUTE OF TECHNOLOGY for WOMEN

(Approved by AICTE, New Delhi; Affiliated to JNTU, Hyderabad)

Ananthasagar(Vill), Hasanparthy(M), Warangal – 506 371 (A.P.), Website : [www.sritw.org](http://www.sritw.org)

## 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.

**Mr.K.RANGANATH**

Project Guide

**Dr.E.SUDARSHAN**

Head of the Department



**PRINCIPAL**

Sumathi Reddy Institute of Technology for Women  
Ananthasagar (V), Hasanparthy (M)  
WARANGAL - 506 371 (T.S.)

## 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.



*Rijan*

**Principal**

Sumathi Reddy Institute of Technology for Women  
Ananthasagar (V), Hasanparthy (M)  
WARANGAL - 506 371 (TS)