

# Currency Recognition System using Image Processing

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**Abstract:** *Common people face many problems for the fake currency circulation and also difficult to detect fake currency, suppose that a common people went to a bank to deposit money in bank but only to see that some of the notes are fake, in this case he has to take the blame. As banks will not help that person. Some of the effects that fake currency has on society include a reduction in the value of real money; and inflation due to more fake currency getting circulated in the society or market which disturbs our economy and growth. Some illegal authorities an artificial increase in the money supply, A decrease in the acceptability of paper money and losses. Our aim is to help common man to recognize currency for originality. Proposed system is based on image processing and machine learning and makes the process automatic and robust. Shape information are used in our algorithm. Original Note Detection Systems are present in banks but are very costly. We are developing an image processing and machine learning algorithm which will extract the currency features and compare it with features of original note image. This system is cheaper and can provide accuracy on the basics of visual contents of note. So, as an output, people will get information provided the note image is original or duplicate.*

**Keywords:** Currency, Fake, Money, Image Processing, Accuracy.

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