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Counterfeit Currency Detection using Deep Learning

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Abstract: Currency is an indispensable part of our daily life. However, how to identify true and fake currencies has become the most important issue at present. If we use a computer for currency recognition, it will greatly improve the accuracy of recognition and reduce people's workload effectively. In recent years, deep learning has become the most popular research direction. It mainly trains a dataset through deep neural networks. There are many different models that can be used in this project. It is going to utilize pattern recognition and image processing learning and analyzing methods for distinguishing features. This project will be performed on an integrated development environment of python like Jupyter Notebook, spyder, etc. and then training is done on the datasets to identify the currency, it provides an advanced features of data analysis as well as an excellent visualization.

Keywords: Currency Recognition, Currency Classification, Deep Learning, Convolution Neural Network (CNN), Feature extraction, Image processing

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