

Project Report

Internet Web Programming

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Fake Land Deed Detection System

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**Fake Land Deed Detection**

**Introduction**

In the modern world the documents can now be altered and manipulated easily. Hence, trustworthiness of documents has never been more in demand. Many people resort to these techniques to reach the end to their means.

Thus, to counter the danger posed by fake legal documents, we need to come up with new improved methods to minimize the threat as much as possible. Many preventive measures have been taken by the government to curb these

forgery activities and nip them in the bud. But

unfortunately, it still has not affected the rapidly

growing rate of these crimes.

The main motive behind this project is to come up with a concept and develop an idea around it,

aimed at social and consumer welfare. We thus,

wish to build a Fake Land Deed Detection System to validate the authenticity and transparency of Recorded Documents regarding lands issued under the jurisdiction of the Indian Government.

**Abstract**

The proposed system implements Pattern Recognition Technique for matching the pattern of imprint obtained from implementation of Image Processing Technique. Thus, we use:

1. Image Acquisition
2. Gray Scale Conversion
3. Edge Detection
4. Image Segmentation
5. Feature Extraction

to change the nature of the image obtained for

easy and accurate, verification and processing.

Detect the boundaries to determine the ROI

(Region of Interest) using cropping, and finally

compare the extracted feature with the one

maintained in records.

Hence, verifying the authenticity of the given

Deed.

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| **Authors and year of references** | **Title (Study) & no. of pages** | **Concept/Theoretical model/Framework** | **Methodology used/ Implementation** | **Data set Details/Analysis** | **Relevant Finding** | **Limitation / Future Research/ Gaps identified** |
| ***Dr. P. Mangayarkarasi, Akhilendu, Anakha A S, Meghashree K and Faris A B***  ***(May 2020)*** | Fake Indian Currency Note Recognition  **[5 pages]** | The paper proposes a system that can verify Currency note using an easy processing algorithm. | 1. Image Acquisition  2. Image Processing  3. Image segmentation  4. Feature extraction | For this project, the dataset is taken from the user. | In this system the analysis of image is accurate and method is cost and time effective. | There is a need of relative comparisons between these techniques over same data sets. |
| ***G. Chandra Praba, E. Jeevitha, A. Abitha, A. Shalini and B. Swetha***  ***(2021)*** | Fake Education Document Detection using Image Processing and Deep Learning  **[3 pages]** | This paper proposes two methods to distinguish between the original and the forged one.  1. One is QR-code scanner which scans the QR- code of the document and detects whether the document is original or forged. 2. Another is the image processing technique to detect fake documents. This system should be implemented on the web portal at the time of submission of the document. | 1. QR-code scanner module (checks if document has an encrypted code)  2. Image processing techniques  include -Error Level Analysis and Neural Network. | NA | We use the minimum distance classifier to classify the document. Proposed system is efficient and results obtained are accurate. | There is a need of relative comparisons between the time taken by these two separate processes to determine the more efficient way. |
| ***Hiba Benhamza, Abdelhamid Djeffal, Abbas Cheddad***  ***(2021)*** | Image Forgery Detection  **[8 pages]** | In this paper, the authors section image forgery detection into two main types.  - First one is an active method that depends on the previous information collected from the original image. It focuses on watermark and signature comparison.  - Another is a passive method used to detect forgery without previous information. | Passive methods are:  1. Copy-move tampering 2. Image slicing. (Various other main existent works are described.)  Active methods are:  1. Steganography, a  technique modified from an existing technique using wavelet transform and many existing works. | Various Datasets | Various image forgery techniques and a summary about their evaluation metrics and results. | Limitations for active methods is only pre-processed images can be identified. |

**3 |** P a g e