



Counterfeit Currency Detection and Recognition for Blind People

Prof. Ugale K. V.¹, Ashish Tambe², Mayuresh Kurhe³, Bhonde Shubham⁴

Department of Computer Engineering^{1,2,3,4}

Samarth Group of Institutions, College of Engineering, Belhe, India

Abstract: Counterfeit currency detection and recognition technology is a crucial tool to empower blind and visually impaired individuals in managing their finances independently and securely. In an increasingly digital and cashless world, ensuring that these individuals can confidently identify genuine banknotes and protect themselves from counterfeit currency scams is of paramount importance. This abstract explores the challenges faced by blind users, the technology's potential, and the ongoing efforts to enhance accessibility and usability. Blind and visually impaired individuals encounter significant hurdles when dealing with currency, from counting money to ensuring its authenticity.

Keywords: Machine Learning , Artificial intelligence, CNN, Recognition

REFERENCES

- [1]. V. Sharan and A. Kaur, "Detection of Counterfeit Indian Currency Note using Image Processing", International Journal of Engineering and Advanced Technology, vol. 9, no. 1, pp. 2440-2447, 2019.
- [2]. V. Saxena and Snehlata, "An Efficient Technique for Detection of Fake Currency", International Journal of Recent Technology and Engineering, vol. 8, no. 3, pp. 1298-1305, 2019.
- [3]. Snehlata and V. Saxena, "Identification of Fake Currency: A Case Study of Indian Scenario", International Journal of Advanced Research in Computer Science, vol. 8, no. 3, pp. 213-218, 2020.
- [4]. Yanyan Qin, Hongke Xu , Huiru Chen, "Image Feature Points Matching via Improved ORB", ICPIC, Vol. 14, pp. 204-208, 2021.
- [5]. S. Kaur, S. Baghla and S. Sunil, "Enhancement of Sift algorithm to check authenticity of Indian Currency", International Journal of Computational Intelligence Research, vol. 13, no. 5, pp. 946-953, 2020.
- [6]. Y. Neeraja, B. Divija and M. Nithish kumar, "Fake currency Detection using KNN Technique", International Journal of Research in Engineering, IT and Social Science, vol. 9, no. 1, pp. 201-205, 2019.
- [7]. ID. Kumar and S. Chauhan, "Indian fake Currency Detection using computer vision", International Research Journal of Engineering and Technology, vol. 7, no. 5, pp. 2870-2874, 2020.
- [8]. Kulkarni, P. Kedar, A. Pupala and P. Shingane, "Original vs Counterfeit Indian Currency Detection", ITM Web of Conferences, vol. 32, p. 03047, 2020.
- [9]. Anjana. P and Apoorva. P, "A Novel Approach for Identification of Indian Currency using Super Resolution Method", International Journal of Innovative Technology and Exploring Engineering, vol. 8, no. 8, pp. 1417-1422, 2019.
- [10]. M. Patil, J. Adhikari and R. Babu, "Fake Currency Detection using Image Processing", International Journal on Future Revolution in Computer Science Communication Engineering, vol. 4, no. 4, pp. 865-868, 2020