

## CHARACTER RECOGNITION FROM PRINTED HINDI WORDS TOWARDS ARTIFICIAL NEURAL NETWORKS

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## ABSTRACT

This paper reports the approval consequences of character acknowledgment from printed Hindi words towards counterfeit neural systems. The principle points shrouded in this research incorporate another list of capabilities, procedure to extricate the components, strategy for word acknowledgment and classifiers. Here utilized MSER Algorithm to recover Hindi content from a given picture and additionally utilized grayscale calculations and neural system approach for extricating writings from picture. Besides line division, word and content division ideas are clarified. The qualities of the new list of capabilities are talked about and shown with the assistance of tests. The usage of the new strategy to separate the components is clarified. The method for word acknowledgment and classifiers utilized has likewise been talked about. This paper likewise manages the qualities of Devanagari script, particularly Hindi dialect written in Devanagari script. The database utilized for test purposes has additionally been depicted. Line segmentation, word segmentation and text segmentation technique are using for extracting Hindi texts from a given image. Moreover, algorithms like gray scale algorithm, noise removal algorithm, thinning algorithm, MSER algorithm, Horizontal and vertical projection algorithms are also used.

**KEYWORDS:** Canny Edge Detection, Grayscale Algorithms, Line Segmentation, MSER Algorithm, Optical Character Recognition, Text Detection