

Submission Summary

Conference Name

2024 IEEE International Conference on Contemporary Computing and Communications

Paper ID

522

Paper Title

Kannada handwritten character recognition

Abstract

Handwritten character recognition is a crucial process that involves converting handwritten text on different surfaces such as paper and postcards into digital formats, making it distinguishable from scanned images. Remarkable advancements have been made in this field, particularly in India, where many languages with complex scripts like Kannada, English, and Marathi are used. Kannada is one of the widely used languages in the southern part of India, and recognizing its handwritten characters is a challenging task due to its complex script. The article explains how CNN, a type of dense net, is used to recognise Kannada’s handwritten characters. This technology can help protect many historical documents from damage and destruction, a significant achievement. The article also highlights that the versatility of this machine learning model extends beyond Kannada and can be used in various applications and technology development. The proposed research has used CNN due to its efficient layers, and the data set from char74k consisted of 16 classes of 25 images each for experimentation. The results showed a remarkable 97.50 percent accuracy in 50 epochs, demonstrating the potential of the CNN network in character recognition.

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Primary Subject Area

Intelligent Data Analytics and Computing

Secondary Subject Areas

Communication and Control Systems

Submission Files

Kannada_handwritten_character_recognition.pdf (606.3 Kb, 30/12/2023, 21:20:20)

Submission Questions Response

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