A Project Abstract

on

AYURVEDIC HERB IDENTIFICATION AND BENEFIT EXTRACTION USING DEEP LEARNING

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ABSTRACT

Ayurveda, Yoga, Unani, Siddha, and Homeopathy are some of India's traditional medicinal systems. Ayurveda is effective in healing ailments without causing adverse effects. Medicinal plants or herbs are regarded as a valuable resource for satisfying people's health-care needs. It is necessary to preserve and digitise information regarding this therapeutic knowledge. In the form of unstructured textual data, there have been a huge number of publications and articles on Ayurveda research. Text mining is utilised to provide a solution for dealing with such large amounts of unstructured data. As a result, an effective model for searching, classifying, and retrieving the most relevant data is necessary. The major goal of this project is to provide an effective and efficient framework and algorithm for searching for and retrieving the most relevant information using an ontology-based text mining approach. To investigate the challenges of locating useful information in the Ayurveda medical system, as well as the changes and opportunities that information technology provides to various aspects of traditional Indian medicine Ontologies and semantic tools are described in order to gain deep knowledge from data. In this method, we perform the classification of Ayurveda herbs and their benefits using images. This involves employing a Convolutional Neural Network (CNN) of deep learning combined with transfer learning methods, such as MobileNet. Since this approach is image-based, it focuses on the classification of herbs and their associated benefits through image analysis techniques.

Keywords: *Ayurveda Herbs Images and details, Deep Learning, CNN, Densent121, Resnet50, MobileNet*

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