

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI**



**A PROJECT REPORT ON
“An Effective Identification of Ayurveda Herbal
Plants Using CNN Model”**

Submitted in partial fulfillment for the award of Degree of
BACHELOR OF ENGINEERING

**IN
COMPUTER SCIENCE & ENGINEERING**

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CERTIFICATE


This is to certify that the project entitled **"AN EFFECTIVE IDENTIFICATION OF AYURVEDA HERBAL PLANTS USING CNN MODEL"** has been successfully completed by

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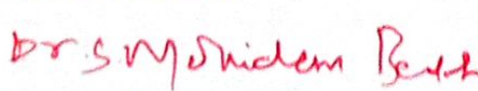
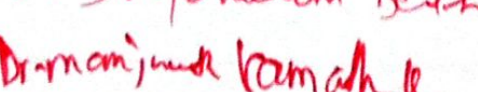
the bonafide students of **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.


Dr. S. Mohideen Badhusha
Project Guide

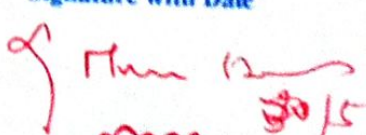

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ABSTRACT

Ayurveda, an ancient system of medicine, has stood the test of time as a holistic approach to healing. Central to its practice are herbal plants, which hold a wealth of therapeutic properties. Access to accurate information about these plants is essential for medical practitioners and pharmacists worldwide. However, amidst the vast array of botanical resources, there exists a pressing need for a repository that consolidates genuine information on the diverse attributes and features of Ayurvedic herbs. Recognizing this necessity, a dedicated team of Ayurveda experts has undertaken the task of meticulously gathering the original attributes of these plants. Their efforts serve as the foundation for a groundbreaking initiative aimed at advancing the accessibility and reliability of Ayurvedic knowledge. At the heart of this endeavor lies the development of a sophisticated deep learning model designed to identify and retrieve information about Ayurvedic plants with unparalleled accuracy and sensitivity. Harnessing the power of neural networks, this innovative model utilizes leaf sets of the plants as input data, allowing for precise recognition and analysis. By leveraging cutting-edge technology, it promises to revolutionize the way Ayurvedic information is accessed and utilized within the medical community. Preliminary assessments have demonstrated the model's exceptional performance, surpassing existing methodologies. The implications of this advancement are profound, offering a transformative tool for practitioners and researchers alike. With its ability to identify Ayurvedic plants swiftly and accurately and extract crucial attributes, the deep learning model heralds a new era of efficiency and efficacy in herbal medicine. Moreover, its potential extends beyond the confines of traditional practice, presenting opportunities for interdisciplinary collaboration and innovation.