

TL: P.Dakshaini (22BQ5A4214)
TM1:R.Chandu(21BQ1A42F0)
TM2:SK.Khadeer(21BQ1A42G2)
TM3:SK.Ushmanbasha(21BQ1A42G4)

Batch : CSM-C:: 12

Guide Name: Dr.T.Kameswara
Rao

Project Title: Medicinal Plants/Raw Materials Identification Using AI and ML

Abstract

Our project aims to address the challenge of accurately identifying medicinal plant species and raw materials through the use of a web application. Leveraging image processing and machine learning algorithms, the application allows users to upload or capture images of plant specimens, providing precise identification and detailed information relevant to the field of medicine:

- Real-time Identification: Leveraging machine learning algorithms, the platform provides instant identification of plants through image recognition technology.
- Language Support: The platform accommodates diverse linguistic backgrounds, offering multilingual support for a broader user base.
- Image Gallery: A comprehensive image gallery is maintained for easy reference and educational purposes, enhancing visual learning.
- Data Export: Users can export plant data in various formats for offline analysis or integration with external systems.
- Search and Retrieval: A powerful search engine enables quick retrieval of plant information, ensuring efficient navigation through the dataset.
- Feedback and Reporting: Continuous feedback collection from users enhances model accuracy and system reliability, while generating reports for insights.
- Model Selection: Advanced AI and ML models can be selected and tuned for specific identification tasks based on the user's needs.
- Plant Information: Detailed plant profiles, including medicinal properties, usage, and geographical information, are available to aid research and decision-making.

This innovative system provides a comprehensive, user-friendly interface that streamlines the identification, documentation, and study of medicinal plants, enhancing both research and practical applications in botany, healthcare, and pharmaceuticals.

Signature of
Guide

Signature of
Project Co-ordinator