

Package ‘MedLEA’

July 21, 2025

Title Morphological and Structural Features of Medicinal Leaves

Version 1.0.2

Description Contains a dataset of morphological and structural features of 'Medicinal LEAves (MedLEA)'. The features of each species is recorded by manually viewing the medicinal plant repository available at (<http://www.instituteofayurveda.org/plants/>). You can also download repository of leaf images of 1099 medicinal plants in Sri Lanka.

License GPL-3

Depends R (>= 3.5.0)

Suggests rmarkdown, knitr, ggplot2, tidyr, dplyr, magrittr, tm, patchwork, wordcloud2

Encoding UTF-8

LazyData true

RoxygenNote 7.2.1

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

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load_images	<i>Obtain link to download 1099 leaf images</i>
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Description

A repository of leaf images of medicinal plants in Sri Lanka. The repository contains 1099 leaf images of 31 species and 29-45 images per species.

Usage

```
load_images(linkonly = FALSE)
```

Arguments

linkonly if TRUE only the shareable link will be displayed.

Details

Download leaf image repository

Value

character listing the details of the dataset

medlea	<i>Features of Medicinal Plants</i>
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Description

feature description of medicinal plant

Cvariable_name variable description

ID Id for the plant(Primary key)

Sinhala_Name Sinhala name of the plant(Local name)

Family_Name Family name of the plant

Scientific_Name Scientific name of the plant

Shape Shape of the leaf:1 = Heart, 2 = Round, 3 = Needle, 4 = Spear shaped/Diamond, 5 = Hand shaped (In Main category Diamond), 6 = Wedge shaped (In Main category Diamond), 7 = Scale-like shaped, 8 = Simple round

Arrangements Arrangements of the leaves on the main stem:, 1 = Simple, 2 = Compound

Bipinnately_compound Is the compound type leaf bipinnately arranged or not?: 0 = False, 1 = True

Pinnately_compound Is the compound type leaf pinnately arranged or not?: 0 = False, 1 = True

Palmately_compound Is the compound type leaf palmately arranged or not?: 0 = False, 1 = True

Edges Edge type of the leaf: 1 = Smooth, 2 = Toothed, 3 = Lobed, 4 = Crenate

Uniform_background Is the background of the leaf uniform or not?: 0 = False, 1 = True

Red_Margin Is there a red margin of the leaf or not?: 0 = False, 1 = True

Shaded_margin Is there a shaded margin of the leaf or not?: 0 = False, 1 = True

White_Shading Is there a white shading on the leaf or not?: 0 = False, 1 = True

Red_Shading Is there a red shading on the leaf or not?: 0 = False, 1 = True

White_line Is there a white line on the leaf or not?: 0 = False, 1 = True

Green_leaf Is the leaf green colored or not?: 0 = False, 1 = True

Red_leaf Is the leaf red colored or not?: 0 = False, 1 = True

Veins Vein category of the leaf: 1 = Parallel, 2 = Pinnate, 3 = Palmate

Arrangement_on_the_stem Category of leaf arrangements in the plant: 1 = Alternate, 2 = Opposite, 3 = Whorled

Leaf_Apices Apice type of the leaf: 1 = Acute, 2 = Obtuse, 3 = Rounded, 4 = Cuspidate, 5 = Mucronulate, 6 = Truncate, 7 = Truncate

Leaf_Base Base type of the leaf: 1 = Acuate, 2 = Rounded, 3 = Auriculate, 4 = Hastate, 5 = Gradually tapering, 6 = Truncate, 7 = Cordate, 8 = Attenuate, 9 = Tumcate, 10 = Cuneate, 11 = Obtuse, 12 = Cleft

Usage

medlea

Format

An object of class `data.frame` with 471 rows and 22 columns.

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