

# Package ‘MedLEA’

March 13, 2023

**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

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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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