Iris data set

[Iris - UCI Machine Learning Repository](https://archive.ics.uci.edu/dataset/53/iris)



**Iris**

**Donated on 6/30/1988**

A small classic dataset from Fisher, 1936. One of the earliest known datasets used for evaluating classification methods.

**Dataset Characteristics**

Tabular

**Subject Area**

Life Science

**Associated Tasks**

Classification

**Feature Type**

Real

**# Instances**

150

**# Features**

4

**352 citations**

**402952 views**

**Citation**

Fisher,R. A.. (1988). Iris. UCI Machine Learning Repository. https://doi.org/10.24432/C56C76.

**BibTeX**

@misc{misc\_iris\_53,

author = {Fisher,R. A.},

title = {{Iris}},

year = {1988},

howpublished = {UCI Machine Learning Repository},

note = {{DOI}: https://doi.org/10.24432/C56C76}

}

**Keywords**

ecology

**Creators**

**R. A. Fisher**

**DOI**

[**10.24432/C56C76**](https://doi.org/10.24432/C56C76)

**License**

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This allows for the sharing and adaptation of the datasets for any purpose, provided that the appropriate credit is given.

**Dataset Information**

**What do the instances in this dataset represent?**

Each instance is a plant

**Additional Information**

This is one of the earliest datasets used in the literature on classification methods and widely used in statistics and machine learning. The data set contains 3 classes of 50 instances each, where each class refers to a type of iris plant. One class is linearly separable from the other 2; the latter are not linearly separable from each other. Predicted attribute: class of iris plant. This is an exceedingly simple domain. This data differs from the data presented in Fishers article (identified by Steve Chadwick, spchadwick@espeedaz.net ). The 35th sample should be: 4.9,3.1,1.5,0.2,"Iris-setosa" where the error is in the fourth feature. The 38th sample: 4.9,3.6,1.4,0.1,"Iris-setosa" where the errors are in the second and third features.

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**Has Missing Values?**

No

**Introductory Paper**

[**The Iris data set: In search of the source of virginica**](https://www.semanticscholar.org/paper/4599862ea877863669a6a8e63a3c707a787d5d7e)

By A. Unwin, K. Kleinman. 2021

Published in Significance, 2021

**Variables Table**

| **Variable Name** | **Role** | **Type** | **Demographic** | **Description** | **Units** | **Missing Values** |
| --- | --- | --- | --- | --- | --- | --- |
| sepal length | Feature | Continuous |  |  | cm | no |
| sepal width | Feature | Continuous |  |  | cm | no |
| petal length | Feature | Continuous |  |  | cm | no |
| petal width | Feature | Continuous |  |  | cm | no |
| class | Target | Categorical |  | class of iris plant: Iris Setosa, Iris Versicolour, or Iris Virginica |  | no |

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**Baseline Model Performance**

AccuracyPrecision

**Papers Citing this Dataset**

SORT BYYEAR, DESC

[**SuperTML: Two-Dimensional Word Embedding for the Precognition on Structured Tabular Data**](https://api.semanticscholar.org/CorpusID:174798306)

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