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
Biology

Associated Tasks
Classification

Feature Type
Real

 # Instances
150

 # Features
4

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
By A. Unwin, K. Kleinman. 2021
Published in Significance, 2021

Variables Table

Variable Name	Role	Type	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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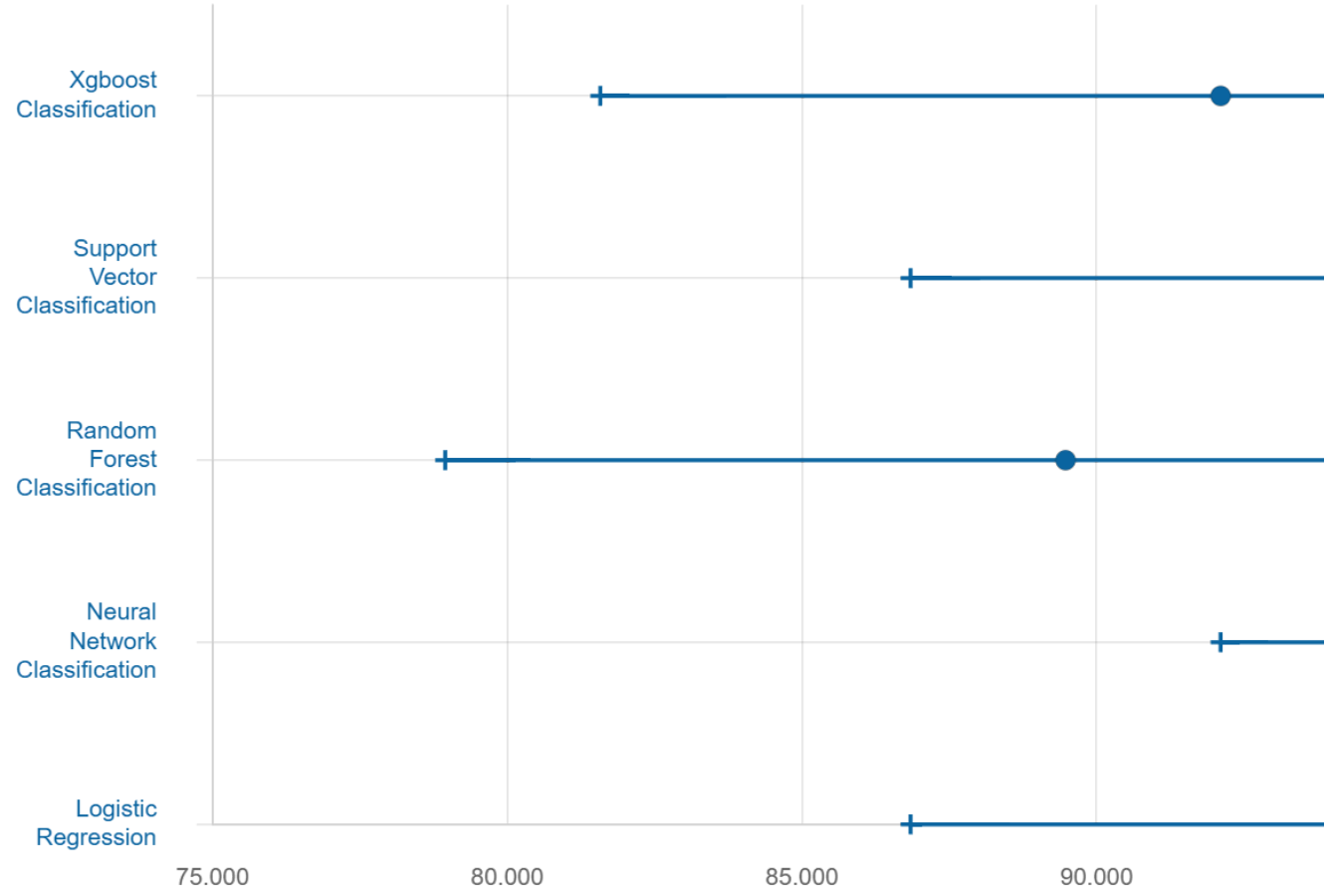
Baseline Model Performance

Accuracy Precision



Dataset Files

File	Size
bezdekIris.data	4.4 KB
iris.data	4.4 KB
iris.names	2.9 KB
Index	105 Bytes

Papers Citing this Dataset

SORT BY YEAR, DESC

[A Constructive Approach for One-Shot Training of Neural Networks Using Hypercube-Base...]
By W. Daniel, Enoch Yeung. 2019
Published in ArXiv.

[Convergence and Margin of Adversarial Training on Separable Data]
By Zachary Charles, Shashank Rajput, Stephen Wright, Dimitris Papailiopoulos. 2019
Published in ArXiv.

[CRAD: Clustering with Robust Autocuts and Depth]
By Xin Huang, Yulia Gel. 2019
Published in 2017 IEEE International Conference on Data Mining (ICDM), 925--930} (2017).

[Deep Spiking Neural Network with Spike Count based Learning Rule]
By Jibin Wu, Yansong Chua, Malu Zhang, Qu Yang, Guoqi Li, Haizhou Li. 2019
Published in ArXiv.

[Bounded Fuzzy Possibilistic Method]
By Hossein Yazdani. 2019
Published in ArXiv.

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Reviews

5.0 ★★★★★ (3 ratings)

WRITE A REVIEW

Imran Abdul R azack

★★★★★

11/16/2024

There is a duplicate data , so the comments in summary needs to be corrected , as it says no duplicate data

Old Mavano

★★★★★

Amazing!

4/13/2024

ksio Namie

★★★★★ Thank you for the article! https://smkdarunnajah.sch.id/

12/7/2023

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ecology

Creators

R. A. Fisher

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