





From Audobon Society Field Guide; mushrooms described in terms of physical characteristics; classification:...

Dataset Characteristics

Multivariate

Associated Tasks

Classification

Instances

8124

Subject Area

Biology

Feature Type

Categorical

Features

22

Dataset Information

Additional Information

This data set includes descriptions of hypothetical samples corresponding to 23 species of gilled mushrooms in the Agaricus and Lepiota Family (pp. 500-525). Each species is identified as definitely edible, definitely poisonous, or of unknown edibility and not recommended. This latter class was combined with the poisonous one. The Guide clearly states that there is no simple rule for determining the edibility of a mushroom; no rule like `leaflets three, let it be'' for Poisonous Oak and Ivy.

Variables 1	Γable		^
Variable Name	Role	Туре	Description
poisonous	Target	Categorical	
cap-shape	Feature	Categorical	<pre>bell=b,conical=c,conve> knobbed=k,sunken=s</pre>
cap-surface	Feature	Categorical	fibrous=f,grooves=g,sca
cap-color	Feature	Binary	<pre>brown=n,buff=b,cinnamor pink=p,purple=u,red=e,v</pre>
bruises	Feature	Categorical	bruises=t,no=f
odor	Feature	Categorical	<pre>almond=a,anise=l,creosc musty=m,none=n,pungent=</pre>
gill- attachment	Feature	Categorical	attached=a,descending=d
gill- spacing	Feature	Categorical	close=c,crowded=w,dista
gill-size	Feature	Categorical	broad=b,narrow=n
gill-color	Feature	Categorical	black=k,brown=n,buff=b, green=r,orange=o,pink=p white=w,yellow=y
4			>

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Additional Variable Information

1. cap-shape:

bell=b,conical=c,convex=x,flat=f, knobbed=k,sunken=s

2. cap-surface:

SHOW MORE V

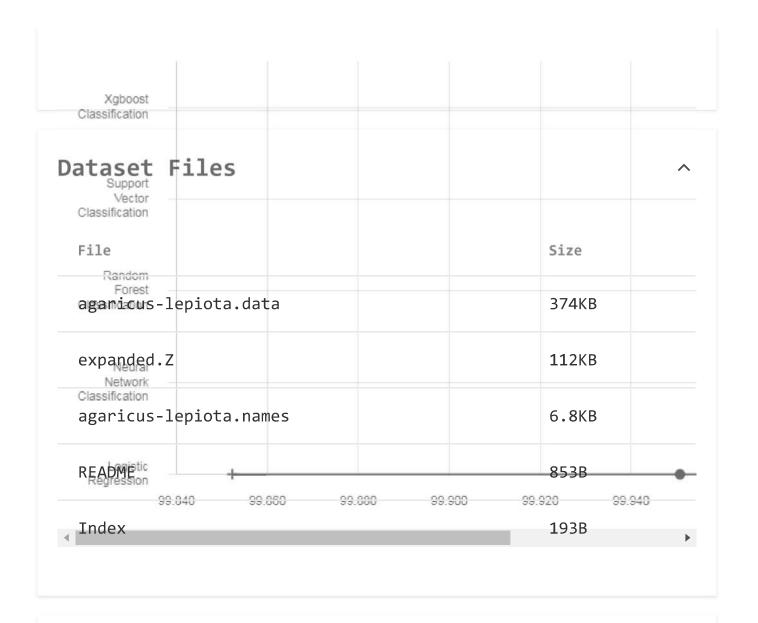
Class Labels

edible=e, poisonous=p

Baseline Model Performance

Accuracy

Precision



Papers Citing this Dataset

── SORT BY YEAR, DESC

topFiberM: Scalable and Efficient Boolean Matrix Factori...

By Abdelmoneim Desouki, Michael Roder, Axel-Cyrille Ngomo. 2019

Published in ArXiv.

<u>Estimating Risk and Uncertainty in Deep Reinforcement Le</u>...

By William Clements, Benoit-Marie Robaglia, Bastien Delft, Reda S...

Published in ArXiv.

<u>High-Performance Support Vector Machines and Its Applica</u>...

By Taiping He, Tao Wang, Ralph Abbey, Joshua Griffin. 2019

Published in ArXiv.

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By Georgi Dikov, Patrick Smagt, Justin Bayer. 2019 Published in ArXiv.

Edibility Detection of Mushroom Using Ensemble Methods

By Nusrat Pinky, S. Islam, Rafia Alice. 2019 Published in International Journal of Image, Graphics and Signal …

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Reviews

There are no reviews for this dataset yet.

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Keywords

(ecology)

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