



Mushroom

Donated on 4/26/1987

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

Dataset Characteristics

Multivariate

Subject Area

Biology

Associated Tasks

Classification

Feature Type

Categorical

Instances

8124

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.

SHOW LESS ^
Has Missing Values?
Yes

Variables Table ^

Variable Name	Role	Type	Description
poisonous	Target	Categorical	
cap-shape	Feature	Categorical	bell=b,conical=c,convex=x,knobbed=k,sunken=s
cap-surface	Feature	Categorical	fibrous=f,grooves=g,scaly=s
cap-color	Feature	Binary	brown=n,buff=b,cinnamon=o,pink=p,purple=u,red=e,white=w,yellow=y
bruises	Feature	Categorical	bruises=t,no=f
odor	Feature	Categorical	almond=a,anise=l,creosote=c,musty=m,none=n,pungent=p,unpleasant=u
gill-attachment	Feature	Categorical	attached=a,descending=d,free=f
gill-spacing	Feature	Categorical	close=c,crowded=w,distant=d
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

Additional Variable Information

^

1. cap-shape:
bell=b,conical=c,convex=x,flat=f, knobbed=k,sunken=s

2. cap-surface: ...

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Class Labels

edible=e, poisonous=p

Baseline Model Performance

^

Accuracy

Precision

Xgboost
Classification

Dataset Files

Support
Vector
Classification

File

Size

Random
Forest

agaricus-lepiota.data

374KB

expanded.Z

112KB

Neural
Network
Classification

agaricus-lepiota.names

6.8KB

Logistic
Regression

README

853B

99.840

99.860

99.880

99.900

99.920

99.940

Index

193B

Papers Citing this Dataset



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[topFiberM: Scalable and Efficient Boolean Matrix Factori...](#)

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

[Estimating Risk and Uncertainty in Deep Reinforcement Le...](#)

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

[High-Performance Support Vector Machines and Its Applica...](#)

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

Bayesian Learning of Neural Network Architectures

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



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10.24432/C5959T

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