

The Mushroom Detector

Avoiding Death by Fungus

Anthony Palumbo-Principal Data Scientist

Situation

- Mushrooms are everywhere
- Too many different types to categorize directly
- -Not easy to tell what kind of mushroom it is just by looking at it









* * * * December 14, 2018

Trying to download images the app will not open.













Opportunity

-Mushrooms are very common



Chris Maddock

★ ★ ★ ★ ★ November 22, 2016





Chris Maddock Totally useless. Search function doesn't work and no UK plants! Can I get my money back?



Doug Eller

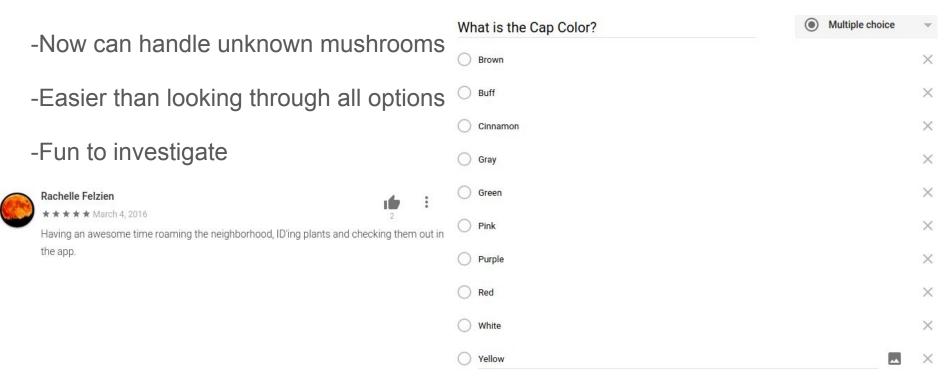
* * * * August 30, 2016





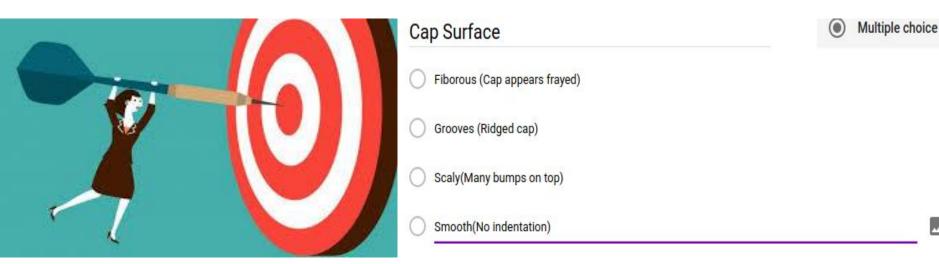
I was disappointed to find out the Southeast isn't included. So I paid \$4.99 for something that doesn't help me. When will the Southeast be included? I'll change this to 5 stars when it is.

New App Feature!



Features of the Addition

- -Survey that asks about the features of the mushrooms
- -Explanation of each of the variables
- > 99.9% accuracy on a sample of over 1600 mushrooms!



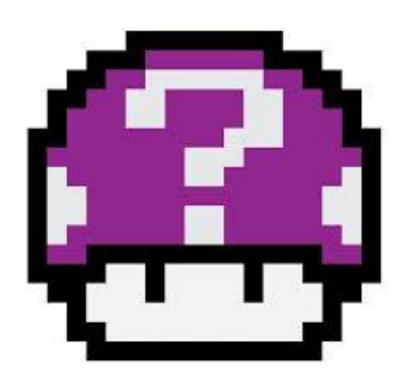
Request

- -We can do this for other things too
- Get more data for other plants



Wally ----->

Questions?



Confusion Matrix

Actual Poisonous	Actual Edible

Predicted Poisonous 800 1

Predicted Edible **0** 824

Accuracy = 99.94%

ROC/AUC(Receiving Operator Characteristic/Area Under Curve)

