CHAMPY CHECK

An application that tells you whether the mushroom you found in Fontainebleau is edible

We use machine learning approach to provide an easy, fast, and reliable way to recognize edible mushrooms. Our database is always growing, aiming to include every possible mushroom you can encounter in Fontainebleau.

Giving back to Fontainebleau community......

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```python
import base64
import requests

# Save string of image file path below
img_filepath = "Downloads/unnamed.jpeg"

# Create base64 encoded string
with open(img_filepath, "rb") as f:
    image_string = base64.b64encode(f.read()).decode("utf-8")

# Get response from POST request
response = requests.post(
    url="http://localhost:38101/v1/predict/3ac795d6-ef0d-45fe-b962-a0dce75ac492",
    json={"image": image_string},
)
data = response.json()
top_prediction = data["predictions"][0]

# Print the top predicted label and its confidence
print("predicted label:\t{}\nconfidence:\t\t{}"
      .format(top_prediction["label"], top_prediction["confidence"]))
```

```
predicted label:        Non-edible
confidence:             0.999998927116394
```
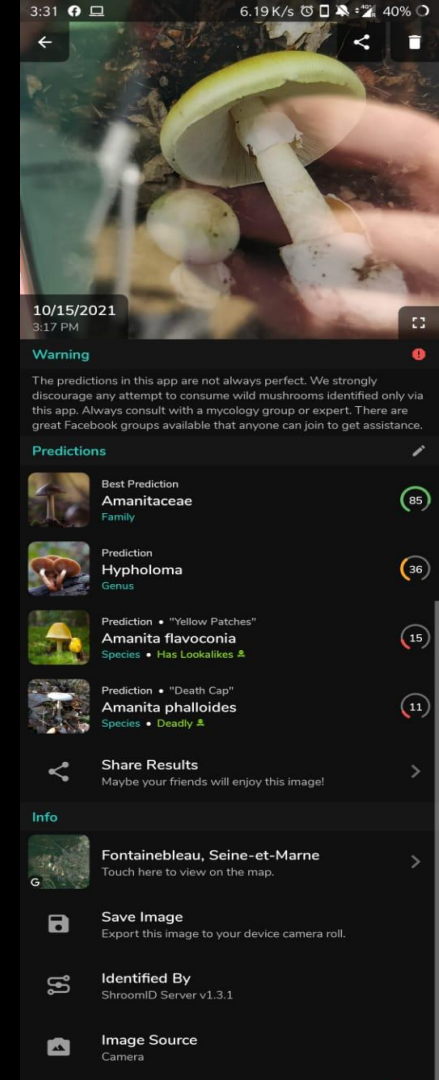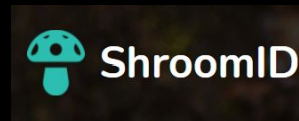

Bon appetit ☺

ShroomID is a free mushroom identifier, using proprietary machine learning model that can currently identify mushrooms with over 80% accuracy. ShroomID is also capable of mushroom identification offline.

Other features:
- Import pictures from your camera roll
- Compare your image with verified mushroom species images
- Image geotagging
- View your identification history on a map
- Search your identification history by species or date
- Research predictions on our free database
- Heatmap to find out where a mushroom species is usually found
- Seasonality chart to find out when a mushroom species is usually found
- View mushroom species that are visually similar to any other species

ShroomID

Regulators: What are the associated risks of using ShroomID?

Risks:

- The software is very good looking and appealing, which may lead users to believe it is also accurate
- It is not extremely precise
- Who verified the information?
    - Coders?
    - Marketing team?
    - Mushroom experts (one or many?)
- Who is responsible in a fatal case?

Solution:

- Government-certified mushroom experts
- The app should be verified by the health authorities and at least 3 independent experts