Overview

Mushrooms exists naturally in different types in diverse environments and different shapes, it can be recognized with some common features. Mushrooms are common for their vast usages medical, nutritional and therapeutical properties. However, some types are known for their toxicity. Which causes huge number of fatal accidents yearly, because of misidentification. Creating a model that recognizes the edible types of mushrooms can safe many precious lives.

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Problems

Identify weather mushrooms are edible or poisonous based on:

1. Cap-shape
2. Odor
3. Gill-attachment
4. Gill-color
5. Stalk-root
6. Stalk-color-above-ring
7. Stalk-color-below-ring
8. Ring-type

Algorithms

Tools

- Libraries: pandas, numpy, matplotlib, seaborn, plotly, sklearn.
- Softwares: Trello, GitHub, Jupyter, VSCode, Word & PowerPoint, Zoom.

Solution

The information in this proposal for the mushroom database discussed the most relevant features that can be identified to determine whether mushrooms are edible or poisonous. Implementing models that identify these important features can save companies time and money as well as saving precious lives.