

Wireframe Document

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Author: Ayush Wase

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Abstract

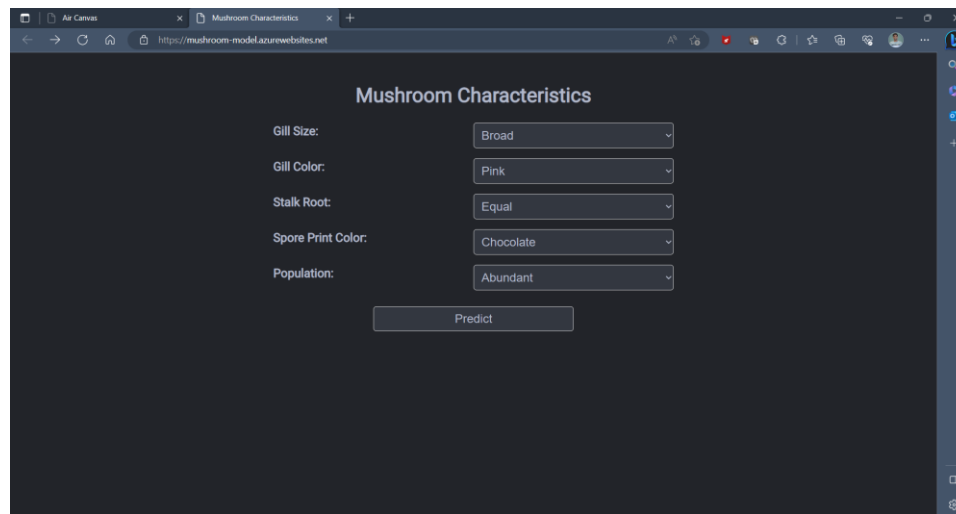
In the age of the internet, the unprecedented volume of data surpasses human capacity for processing. To address this challenge, machine learning techniques have emerged as powerful tools. Our project focuses on the classification of mushrooms as either edible or not edible using machine learning algorithms. By implementing various classification techniques, we aimed to determine the best algorithm for accurately predicting the edibility of mushrooms. Through extensive experimentation, we found that decision tree algorithms provided accurate and reliable results in classifying mushrooms. This work contributes to the field of mushroom classification, highlighting the effectiveness of machine learning algorithms in automating the identification of edible and non-edible mushrooms.

1. Web Interface

App Link: [Mushroom Characteristics \(mushroom-model.azurewebsites.net\)](https://mushroom-model.azurewebsites.net)

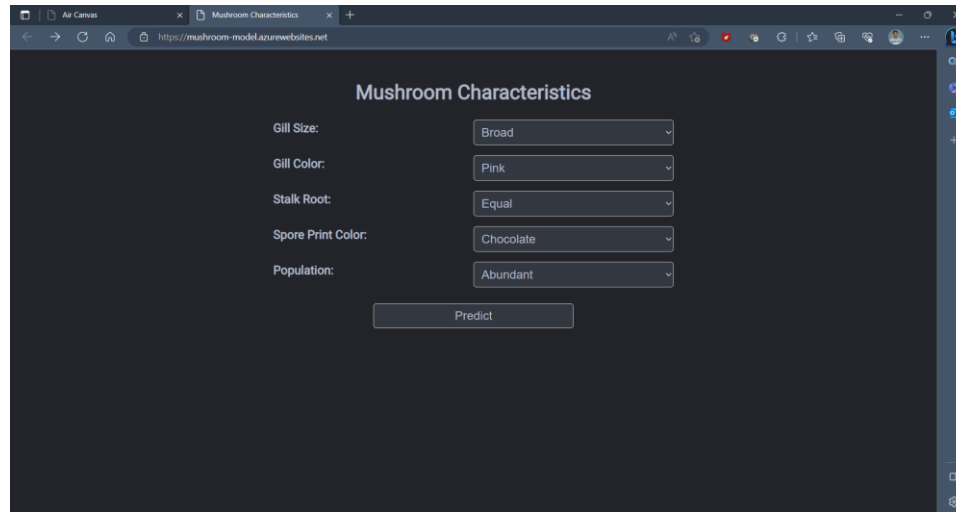
1.1 Home Page

When the user clicks on the app link given above, it will direct user to our home page which looks like below:

A screenshot of a web browser displaying the 'Mushroom Characteristics' application. The browser's address bar shows the URL 'https://mushroom-model.azurewebsites.net'. The application has a dark theme. It features five vertical labels on the left: 'Gill Size:', 'Gill Color:', 'Stalk Root:', 'Spore Print Color:', and 'Population:'. To the right of each label is a dropdown menu. The selected values are 'Broad', 'Pink', 'Equal', 'Chocolate', and 'Abundant' respectively. Below these dropdowns is a rectangular button labeled 'Predict'. The browser's interface, including tabs and navigation icons, is visible at the top.

As you can see, there are total of 5 input fields (drop downs) you need to select based on the characteristics of the mushroom to find out if it's edible or poisonous. There is a "Submit" button which redirect you the results page which will tell if the mushroom is poisonous or edible.

1.2 How to use?



The screenshot shows a web browser window with the title "Mushroom Characteristics" and the URL "https://mushroom-model.azurewebsites.net". The page has a dark background. It contains five input fields, each with a label and a dropdown menu:

- Gill Size: Broad
- Gill Color: Pink
- Stalk Root: Equal
- Spore Print Color: Chocolate
- Population: Abundant

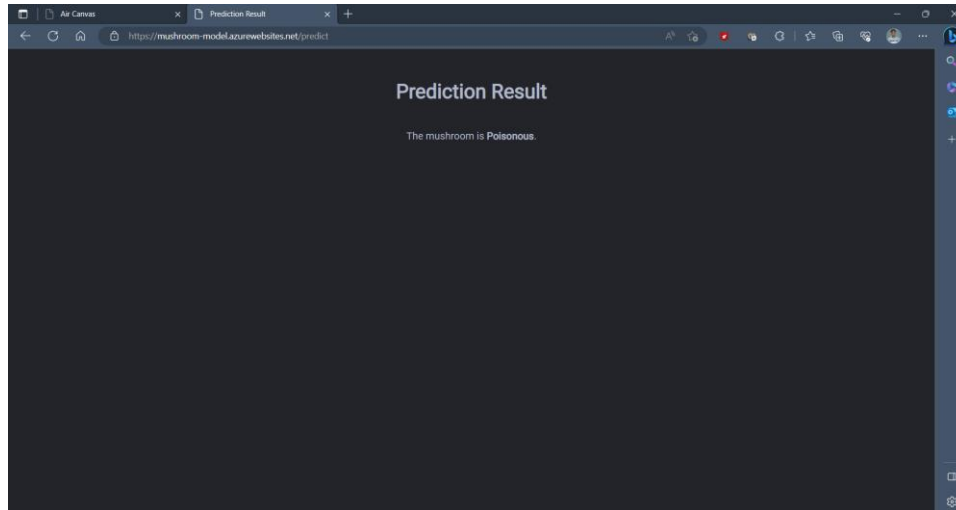
Below these fields is a "Predict" button.

As you can see in the above picture you need to select the characteristics of the mushroom using the drop downs provided for each input fields. For above example I have selected:

- Gill-Size: Broad – b
- Gill-Color: Pink – p
- Stalk-Root: Equal – e
- Spore-Print-Color: Chocolate – h
- Population: Abundant – a

After selecting all the input fields, you just need to click on “Submit” button and it will take you to the results page.

1.3 Results Page

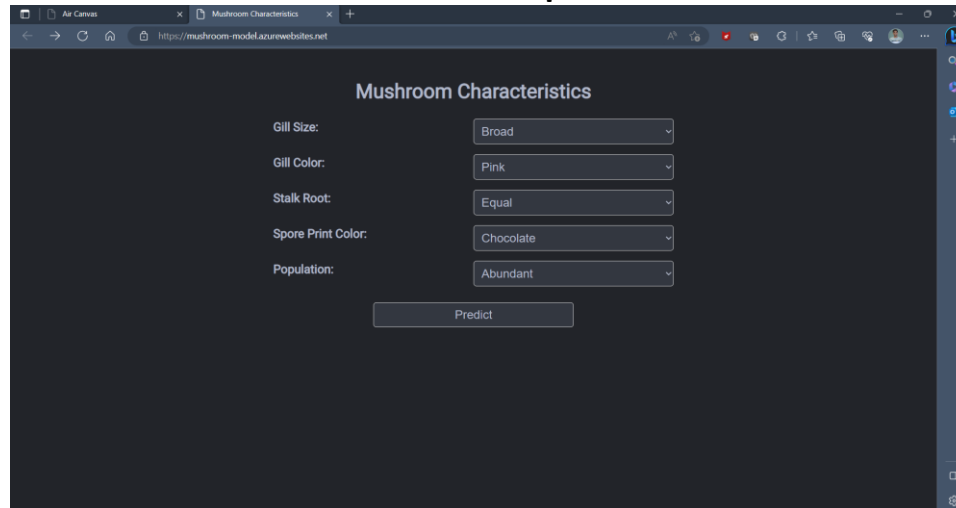


As you can see that based on the inputs that are selected, the given mushroom is Poisonous.

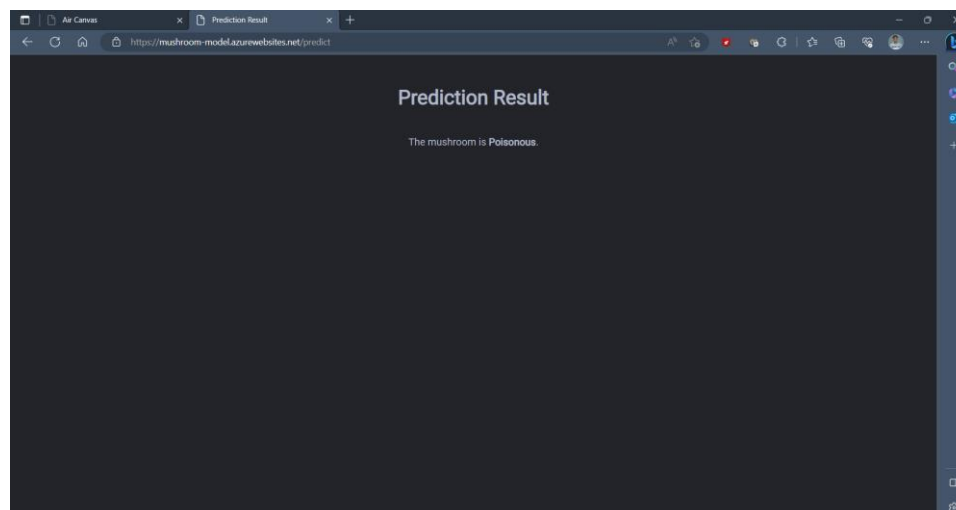
2. Sample Cases:

Here I am going to show you the both outputs i.e., Poisonous and Edible using input fields.

2.1 Poisonous Mushroom Example

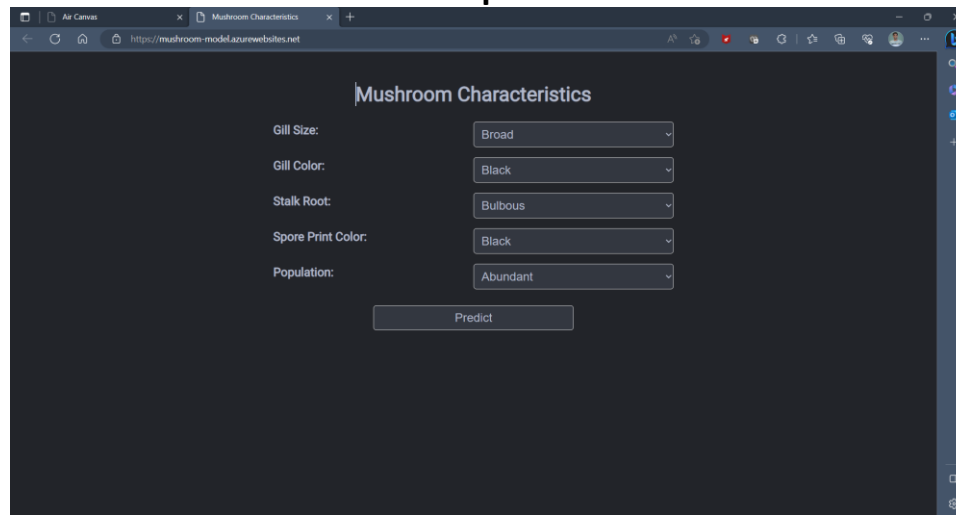


A screenshot of a web browser showing a form titled "Mushroom Characteristics". The form has five dropdown menus for input: "Gill Size" (set to "Broad"), "Gill Color" (set to "Pink"), "Stalk Root" (set to "Equal"), "Spore Print Color" (set to "Chocolate"), and "Population" (set to "Abundant"). Below these fields is a "Predict" button. The browser's address bar shows the URL "https://mushroom-model.azurewebsites.net".



A screenshot of a web browser showing a page titled "Prediction Result". The page displays the text "The mushroom is Poisonous." in the center. The browser's address bar shows the URL "https://mushroom-model.azurewebsites.net/predict".

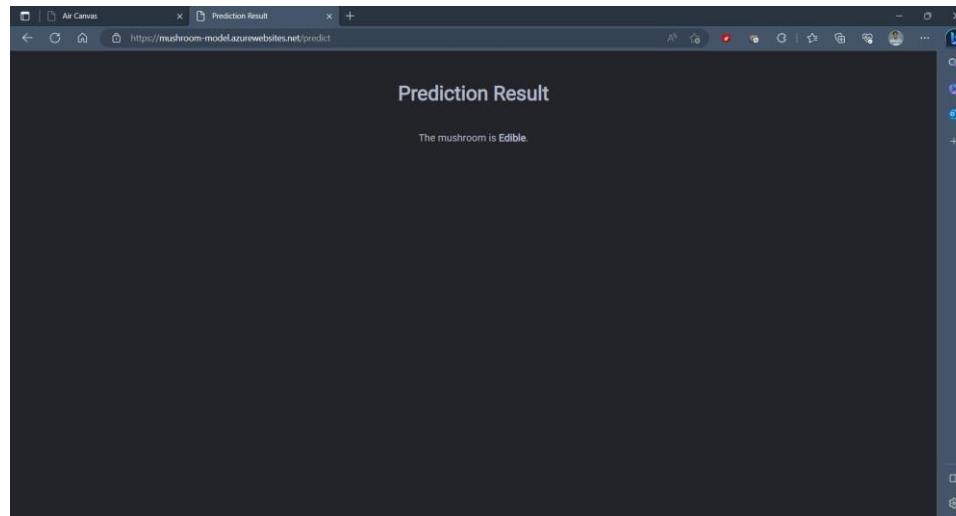
2.2 Edible Mushroom Example



The screenshot shows a web browser window with the title 'Mushroom Characteristics'. The URL in the address bar is 'https://mushroom-model.azurewebsites.net'. The page has a dark background. It contains five input fields, each with a label and a dropdown menu:

- Gill Size: Broad
- Gill Color: Black
- Stalk Root: Bulbous
- Spore Print Color: Black
- Population: Abundant

Below these fields is a 'Predict' button. The browser's developer tools are visible on the right side of the window.



The screenshot shows a web browser window with the title 'Prediction Result'. The URL in the address bar is 'https://mushroom-model.azurewebsites.net/predict'. The page has a dark background. It displays the text 'The mushroom is Edible.' in the center. The browser's developer tools are visible on the right side of the window.