

# WIREFRAME DESIGN

## MUSHROOM CLASSIFICATION

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# **1. Abstract**

Mushrooms hold a timeless significance in human gastronomy, intertwined with both mystery and familiarity. Their name originates from French, linking them to fungi and mold, carrying an air of enigma. Today, mushrooms are valued for their nutrition, low calorie content, and absence of cholesterol, making them popular for health-conscious eaters.

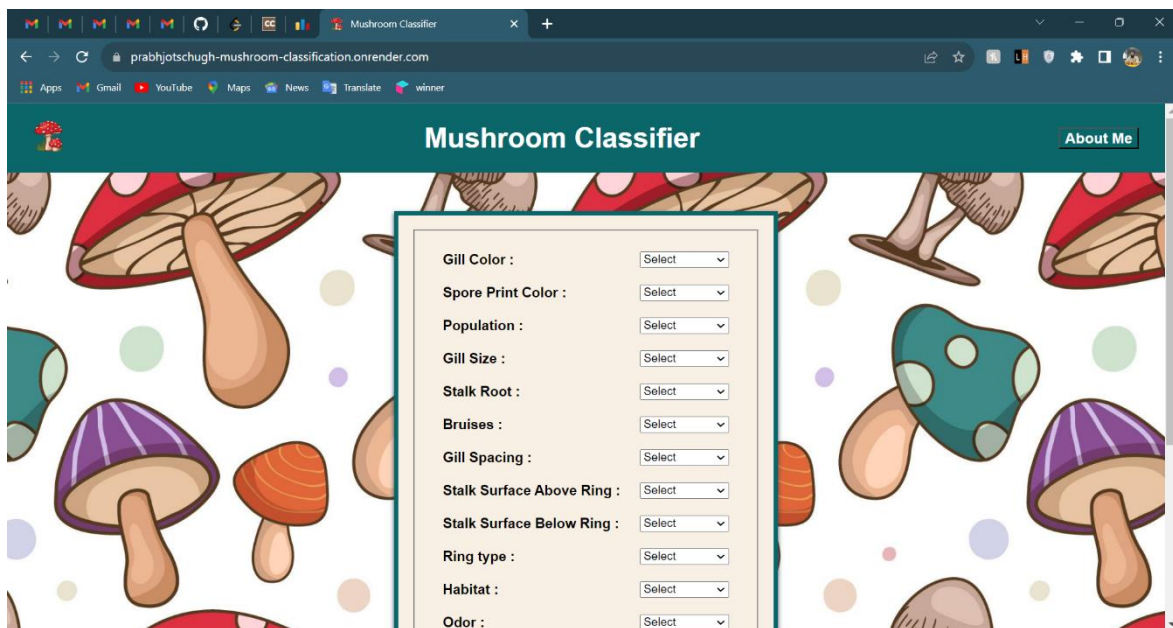
This project introduces an advanced Mushroom Classification Machine Learning Model capable of accurately categorizing mushroom species as either poisonous or edible. Through a meticulously curated dataset and advanced neural networks, the model identifies distinctive patterns for precise classification. Its user-friendly interface accommodates users of all expertise levels, while its adaptability ensures robust performance across various conditions. This innovation not only revolutionizes mushroom classification but also provides a vital tool for mycologists, researchers, and enthusiasts. The report outlines the model's architecture, development, and real-world applicability, highlighting its significant contribution to the field of mycology.

## 2. Web Interface

App Link - <https://prabhjotschugh-mushroom-classification.onrender.com/>

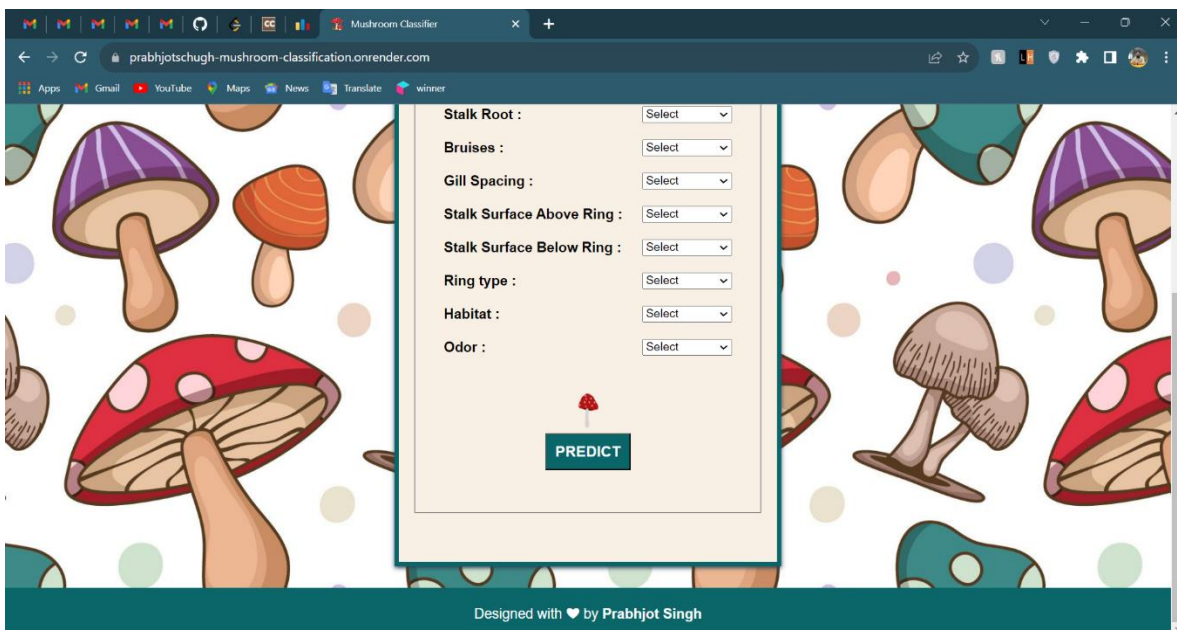
### 2.1 Home Page

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



The screenshot shows a web browser window with the URL [prabhjotschugh-mushroom-classification.onrender.com](https://prabhjotschugh-mushroom-classification.onrender.com/). The page has a teal header with the title "Mushroom Classifier" and an "About Me" link. The background is a colorful pattern of various mushrooms. A central form contains the following fields, each with a "Select" dropdown menu:

- Gill Color :
- Spore Print Color :
- Population :
- Gill Size :
- Stalk Root :
- Bruises :
- Gill Spacing :
- Stalk Surface Above Ring :
- Stalk Surface Below Ring :
- Ring type :
- Habitat :
- Odor :



This screenshot shows the same web interface as the previous one, but with the "PREDICT" button visible at the bottom of the form. The button is green with white text and a small red mushroom icon above it. The footer of the page reads "Designed with ❤ by Prabhjot Singh".

The interface presents a comprehensive set of 12 input fields, each in the form of a dropdown menu. These fields are to be carefully selected based on the specific attributes of the mushroom in question. The purpose of this selection is to determine the mushroom's classification as either edible or poisonous. Upon completing the input, a "Predict" button is provided to initiate the process. This button, when activated, leads the user to a results page that delivers a conclusive verdict on the mushroom's edibility.

The navigation bar features an "About Me" button, which serves as a direct link to my portfolio—a curated collection of my work and accomplishments. Positioned in the footer is my name, designed as a hyperlink that, when clicked, seamlessly redirects the user to my LinkedIn profile. These navigational elements collectively enhance user experience by offering quick access to additional information about me and my professional endeavors.

## **2.2 How to use**

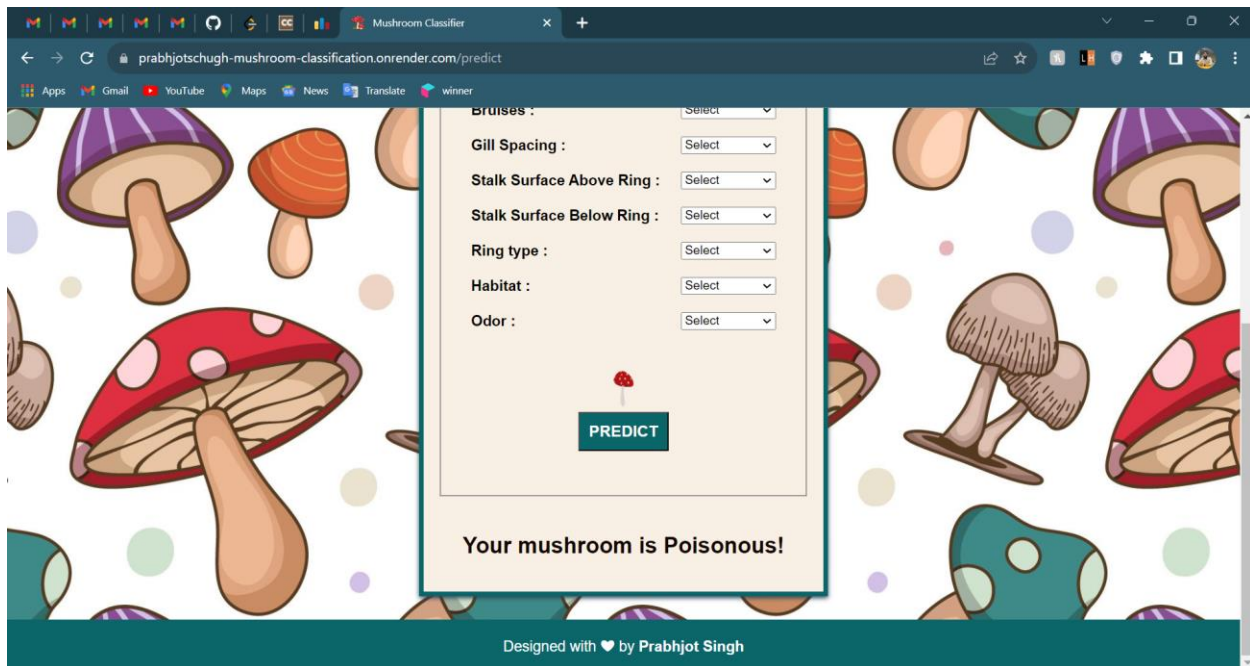
As depicted in the aforementioned illustration, the process necessitates the selection of mushroom characteristics through the employment of dropdown menus assigned to individual input fields. These fields encompass the following attributes:

- Cap-Surface
- Bruises
- Gill-Spacing
- Gill-Size
- Gill-Color
- Stalk-Root
- Stalk-Surface-Above-Ring
- Stalk-Surface-Below-Ring
- Ring-Type
- Spore-Print-Color
- Population
- Habitat

Upon meticulous selection of these attributes, the subsequent action entails clicking the "Predict" button. Following this action, the outcome of the prediction process will be promptly

exhibited below the "Predict" button. This streamlined user interaction ensures efficient access to the classification result, promptly furnishing insights into the edibility or toxicity of the mushroom based on the specified attributes.

## 2.3 Result

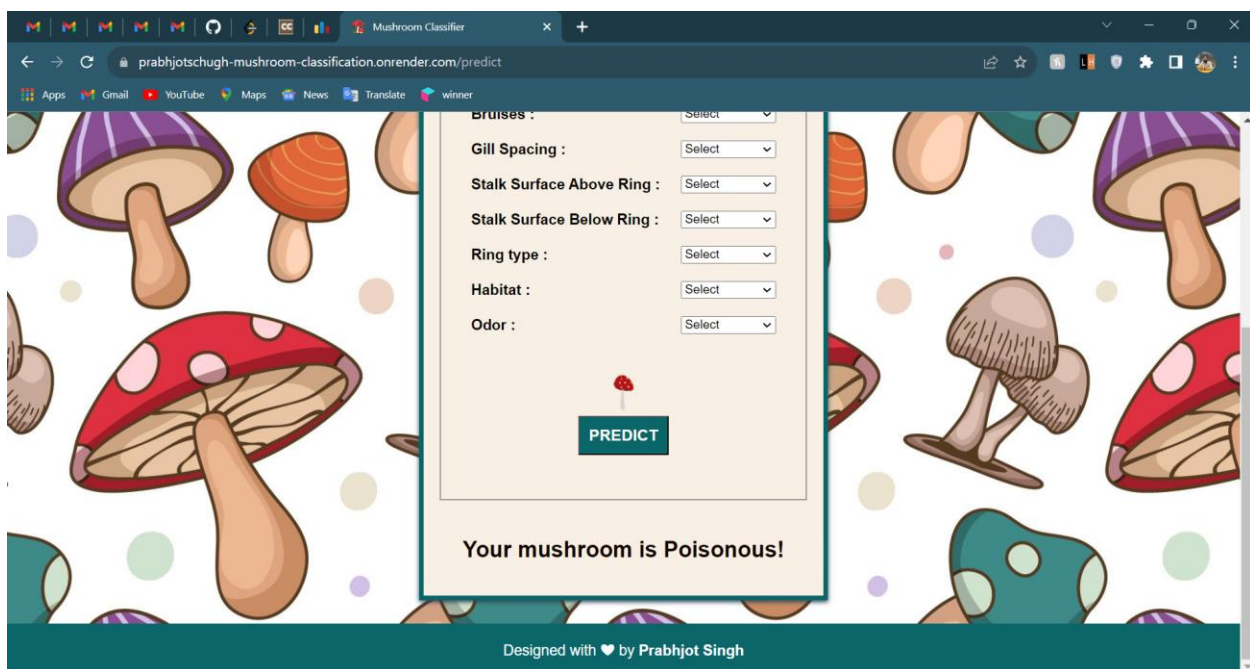


The screenshot displays a web browser window with the URL `prabhjotschugh-mushroom-classification.onrender.com/predict`. The page features a colorful background with various mushrooms. A central form titled "Mushroom Classifier" contains several dropdown menus for inputting mushroom attributes: Bruises, Gill Spacing, Stalk Surface Above Ring, Stalk Surface Below Ring, Ring type, Habitat, and Odor. Each dropdown menu currently shows "Select". Below these inputs is a green "PREDICT" button. The result of the prediction is displayed below the button: "Your mushroom is Poisonous!". At the bottom of the page, a footer reads "Designed with ❤ by Prabhjot Singh".

### 3. Sample Test Cases

In each of the ensuing examples, our focus will be directed towards the outputs that emanate from the predictive process. These outputs hold the key to determining the nature of the mushroom's classification – whether it falls under the "Edible" category, rendering it safe for consumption, or the "Poisonous" category, signifying potential harm. The robust predictive algorithm will promptly generate these outcomes based on the selected attributes, offering valuable insights into the nature of the mushroom and facilitating informed decisions about its edibility.

#### 3.1 Poisonous Mushroom Example



The screenshot displays a web browser window with the URL `prabhjotschugh-mushroom-classification.onrender.com/predict`. The page is titled "Mushroom Classifier" and features a central form for inputting mushroom attributes. The form includes the following fields, each with a "Select" dropdown menu:

- Bruises :
- Gill Spacing :
- Stalk Surface Above Ring :
- Stalk Surface Below Ring :
- Ring type :
- Habitat :
- Odor :

Below these fields is a blue button labeled "PREDICT". Underneath the button, the result is displayed: "Your mushroom is Poisonous!". The background of the page is decorated with a pattern of various colorful mushrooms. At the bottom, a footer reads "Designed with ❤️ by Prabhjot Singh".

## 3.2 Edible Mushroom Example

Mushroom Classifier

prabhjotschugh-mushroom-classification.onrender.com/predict

Apps Gmail YouTube Maps News Translate winner

Bruises : Select

Gill Spacing : Select

Stalk Surface Above Ring : Select

Stalk Surface Below Ring : Select

Ring type : Select

Habitat : Select

Odor : Select

PREDICT

Your mushroom is Edible!

Designed with ❤ by Prabhjot Singh