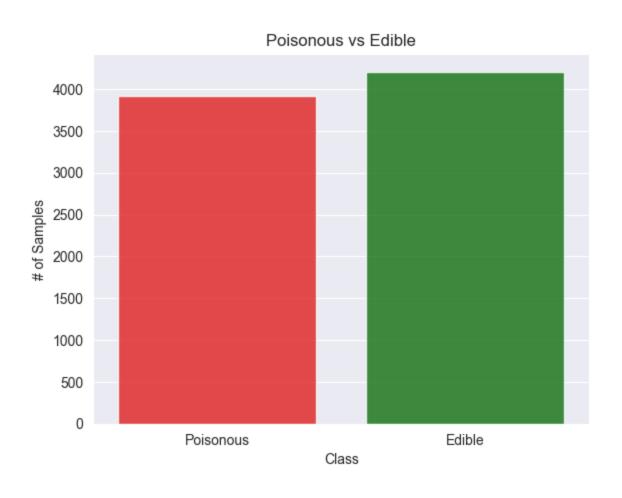
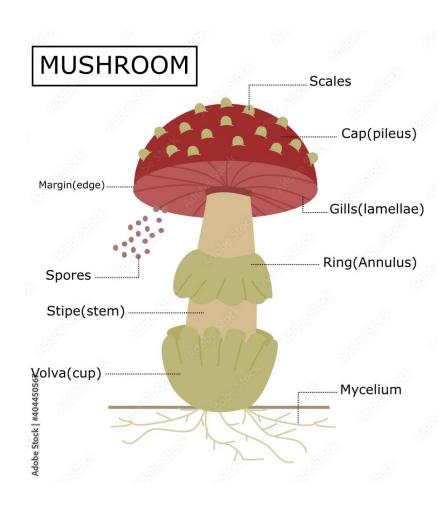


# TARGET VARIABLE



### Independent Variables

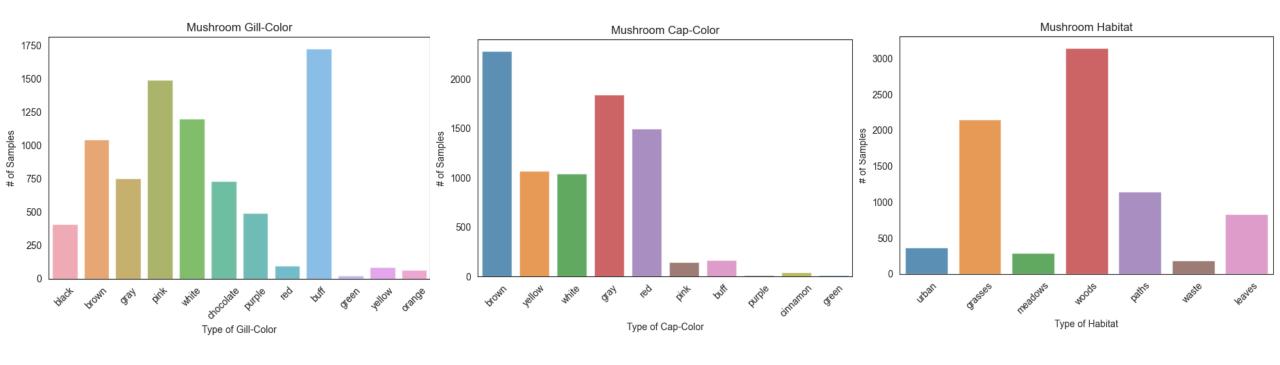
- Cap Shape
- Cap Surface
- Cap Color
- Bruises
- Odor
- Gill Attachment
- Gill Spacing
- Gill Size
- Gill Color
- Stalk Shape
- Stalk Root
- Stalk Surface above ring
- Stalk surface below ring
- Veil Color



- Ring Number
- Ring Type
- Spore Print Color
- Population
- Habitat

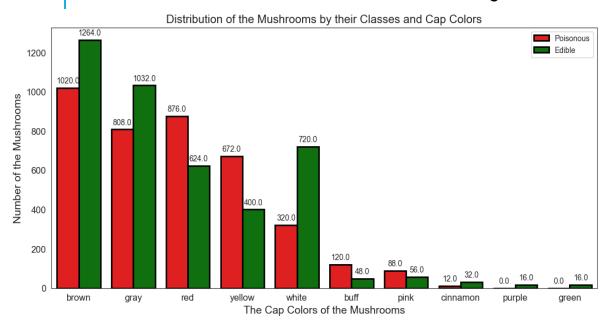
### **Explorative data analysis**

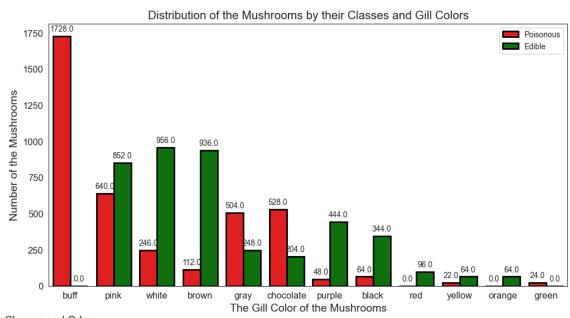
a lot of categories by features here are some of them

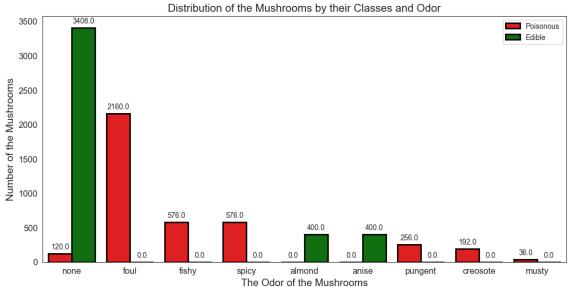


### **Explorative data analysis**

#### more insight on the distribution across the target variables

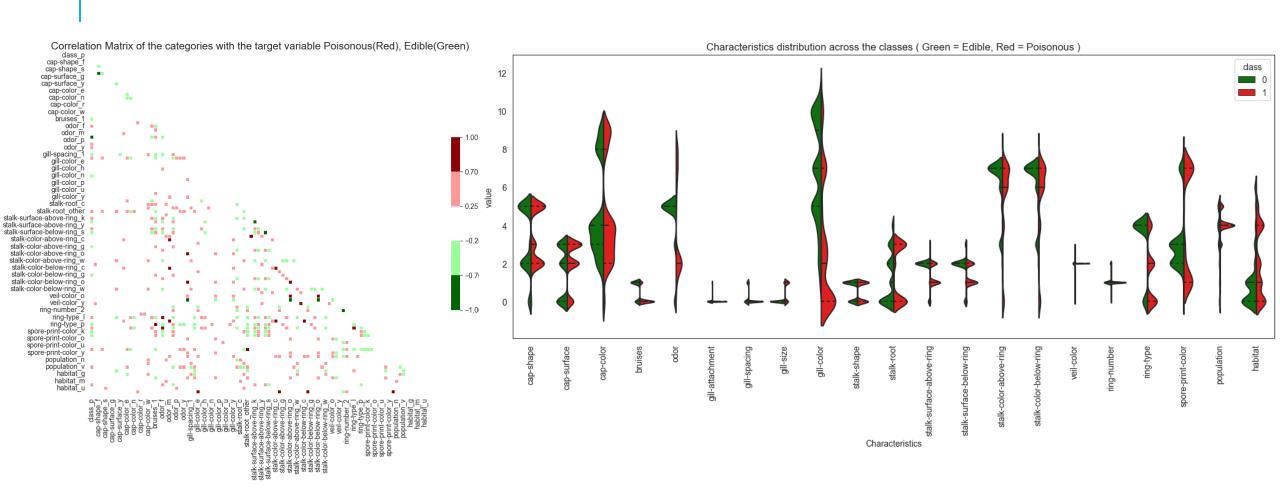






### **Explorative data analysis**

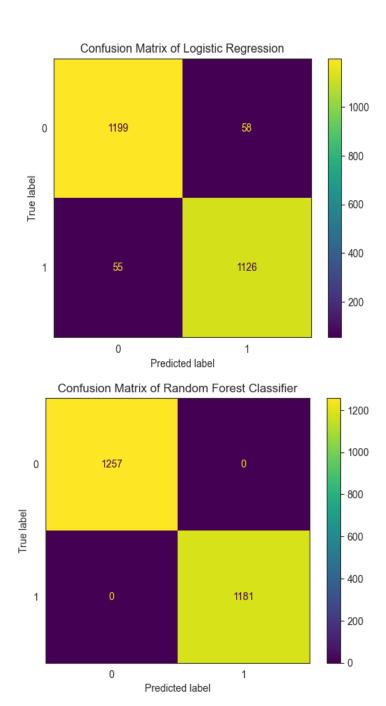
Sum up of the entire distribution across the target variables



## Models

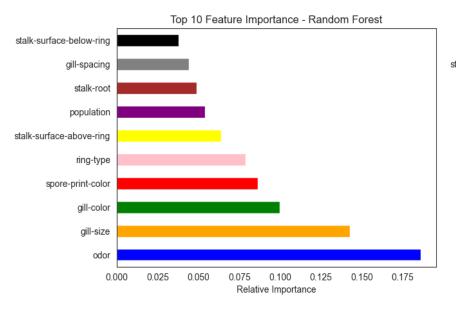
#### Results

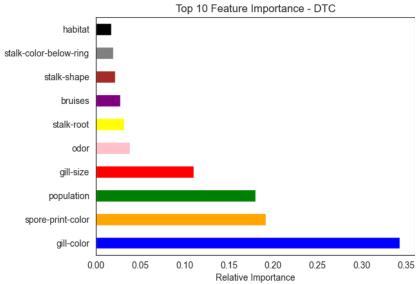
|                      | Accuracy | F1-score | Mean Accuracy (cv=5) |
|----------------------|----------|----------|----------------------|
| Random Forest        | 1.0      | 1.0      | 0.928                |
| Decision Tree        | 1.0      | 1.0      | 0.951                |
| Logisitic Regression | 0.95     | 0.95     | 0.856                |
| KNN                  | 1.0      | 1.0      | 0.881                |

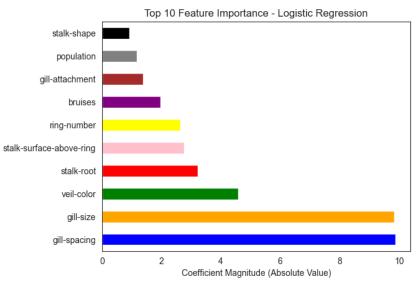


#### Models

#### Most relevant features







### Models

Results

