

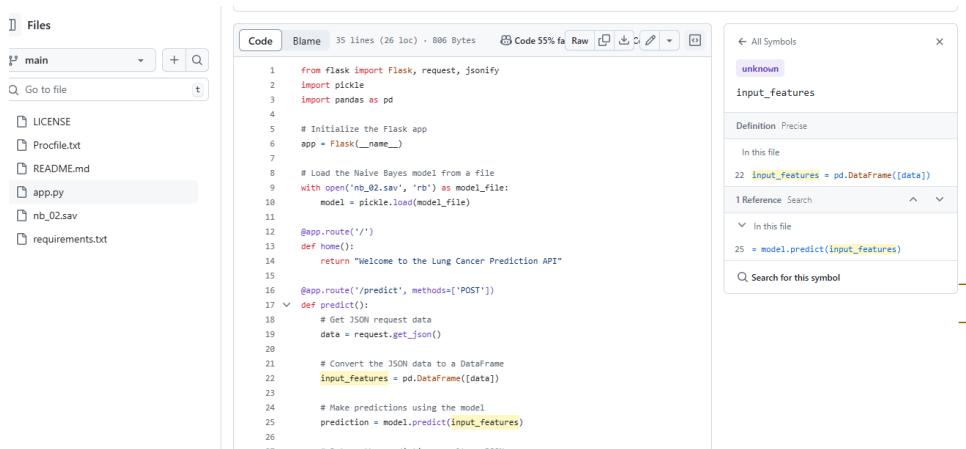
Week 5 Deployment on Heroku.

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Batch code: LISUM33,

Submission date:07/01/2024,

Submitted to: My Github repo



Jupyter D\_S\_M (autosaved)

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Run

We can see that the Multinomial Naive Bayes model uses key factors such as:

- Age
- Fatigue
- Shortness of Breath
- Smoking Peer pressure Chest Pain and Yellow Fingers

Predictors such as Gender, swallowing difficulty and chronic disease were not key features in our predict

### End of Projet

```
In [56]: 1 #Save naive bayes model
2 import pickle
3 filename = 'nb_02.sav'
4 pickle.dump(nb_01, open(filename, 'wb'))
```

```
In [ ]: 1
```

#### Naive Bayes Classification

```
[49]: 1 #Import MultinomialNB from sklearn.naive_bayes
2 from sklearn.naive_bayes import MultinomialNB
3
4 #Run the Naive Bayes algorithm
5 nb_01 = MultinomialNB().fit(X_train,y_train)
6
7 #generate predictions for X_test data
8 Y_predicted = nb_01.predict(X_test)
9
```

#### Model Accuracy

```
[50]: 1 mse_nb = metrics.mean_squared_error(y_test, Y_predicted)
2 mse_nb

t[50]: 0.0641025641025641
```

```
[51]: 1 mae_nb = metrics.mean_absolute_error(y_test, Y_predicted)
2 mae_nb

t[51]: 0.0641025641025641
```

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```
3 # Show the columns and data types
4 lung_cancer_data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 309 entries, 0 to 308
Data columns (total 16 columns):
#   Column                Non-Null Count  Dtype
---  -
0   GENDER                 309 non-null    object
1   AGE                   309 non-null    int64
2   SMOKING               309 non-null    int64
3   YELLOW_FINGERS       309 non-null    int64
4   ANXIETY               309 non-null    int64
5   PEER_PRESSURE         309 non-null    int64
6   CHRONIC_DISEASE       309 non-null    int64
7   FATIGUE               309 non-null    int64
8   ALLERGY               309 non-null    int64
9   WHEEZING              309 non-null    int64
10  ALCOHOL_CONSUMING     309 non-null    int64
11  COUGHING              309 non-null    int64
12  SHORTNESS OF BREATH   309 non-null    int64
13  SWALLOWING DIFFICULTY 309 non-null    int64
14  CHEST_PAIN            309 non-null    int64
15  LUNG_CANCER           309 non-null    object
dtypes: int64(14), object(2)
memory usage: 38.8+ KB
```

```
5 # Look at the first 5 rows of the data
```



## Application error

An error occurred in the application and your page could not be served. If you are the application owner, [check your logs for details](#).  
You can do this from the Heroku CLI with the command

```
heroku logs --tail
```

### Manual deploy

Deploy the current state of a branch to this app.

### Deploy a GitHub branch

This will deploy the current state of the branch you specify below. [Learn more](#).

#### Choose a branch to deploy

main

Deploy Branch

Receive code from GitHub



Build main d7a2534d



Release phase



Deploy to Heroku



Your app was successfully deployed.

 View