

Structure I

Url:localhost
Page:login.html
Next Url: 'search' (Login Button)
Enter:
Username
Password
In a Form which is passed as a
POST method

First takes the POST request from
previous URL and check if
credentials are correct

Url:localhost/search
Page Rendered:search.html
Next Url: 'getdisease' (Submit
Button)
Enter:
Symptoms
Severity
Age
Sex
In a SymForm which is passed as
a POST method from the webpage
with action ='getdisease'

First takes the POST request from previous URL

Store in form of list of maps ,
{<disease1,severity1>,<disease2,severity2>,<disease3,severity3>}
And pass it to Disease_Predicting.py

Url:localhost/get_disease

Page Rendered:showresults.html

Next Url:findtub <id> ' (Links to disease)

If the disease is present in the database send the id to
showresults.html

If the disease is not present in the database, then scrape it from the
DB send the new id to showresults.html

Html Page : Make links corresponding to the diseases as 'findtub'
<id> with respect to the disease id received.

Cleaning Data

Data:Disease name are extracted from Wikipedia.

Symptoms are extracted from Wikipedia.

Symptoms for the corresponding disease is extracted from
websites like Mayoclinic, Medline, NHS.

From both the symptoms stop words are removed, Synset is
used to find the common synonym and are
lemmetized(Stemming after POS Tagging) , to match the
symptoms of the disease with the common Symptom List.

One Hot Encoding on the Disease Symptom List is Done.

With Part of Speech tagging, Adverbs and Adjective are found
and mapped on a scale of 1 to 5 with 'Low', 'high', 'very' , and
'extremely' .

Training Data

80/20 Split is made

Bagging Classifier is Used

Pickle file is generated

Predict Probability corresponding to the classes.

Get the Id sent from the previous request

Url:localhost/findtub<id>

Page Rendered:findtub.html

Show the info such as :

Name

Intro

Causes

Symptoms

Diagnosis

Complications

Medicine

From The Db on the Page

Structure II

Url:localhost/index

Page:index.html (POST metod)

Action: 'find' (Submit Button)

Enter:

Disease name

In MainForm which is passed as a POST method .

First takes the POST request from previous URL and if disease is present in DB then extract all the details or Scrape

1)Medicine: www.drugs.com/

2)Intro,Symptoms,Diagnosis,Complications :

nhp.gov.in/disease/disease_name

Url:localhost/find

Page Rendered:find.html