|  |
| --- |
| import numpy as np |
|  |  | from flask import Flask, request, jsonify, render\_template |
|  |  | import pickle |
|  |  | from joblib import load |
|  |  |  |
|  |  | app = Flask(\_\_name\_\_) |
|  |  | model = pickle.load(open('LR.pkl', 'rb')) |
|  |  |  |
|  |  | @app.route('/') |
|  |  | def home(): |
|  |  | return render\_template('ana.html') |
|  |  |  |
|  |  | @app.route('/y\_predict',methods=['POST']) |
|  |  | def y\_predict(): |
|  |  | ''' |
|  |  | For rendering results on HTML GUI |
|  |  | ''' |
|  |  | x\_test = [[float(x) for x in request.form.values()]] |
|  |  | print(x\_test) |
|  |  | sc=load('analysis.save') |
|  |  |  |
|  |  | prediction = model.predict(sc.transform(x\_test)) |
|  |  | print(prediction) |
|  |  | output=prediction[0] |
|  |  | if(output==0): |
|  |  | pred="No disorder" |
|  |  | else: |
|  |  | pred="More likely to get effected" |
|  |  | return render\_template('ana.html', prediction\_text=' Likeliness of Liver disease :{}'.format(pred)) |
|  |  |  |
|  |  | @app.route('/predict\_api',methods=['POST']) |
|  |  | def predict\_api(): |
|  |  | ''' |
|  |  | For direct API calls trought request |
|  |  | ''' |
|  |  | data = request.get\_json(force=True) |
|  |  | prediction = model.y\_predict([np.array(list(data.values()))]) |
|  |  |  |
|  |  | output = prediction[0] |
|  |  | return jsonify(output) |
|  |  |  |
|  |  | if \_\_name\_\_ == "\_\_main\_\_": |
|  |  | app.run(debug=True) |

 63  [ml-proj/flask/static/css/style.css](https://github.com/SmartPracticeschool/llSPS-INT-3193-Liver-patient-analysis/commit/170d654c13cb782d93817ec63ed1466c3f3f5391" \l "diff-095cafcb6ee7f70b2f152ccfce42d6a77545b5659f3c3752d3d2b92d5b77f15d" \o "ml-proj/flask/static/css/style.css)

|  |  |  |
| --- | --- | --- |
|  |  | @@ -0,0 +1,63 @@ |
|  |  | @import url(https://fonts.googleapis.com/css?family=Open+Sans); |
|  |  | .btn { display: inline-block; \*display: inline; \*zoom: 1; padding: 4px 10px 4px; margin-bottom: 0; font-size: 13px; line-height: 18px; color: #333333; text-align: center;text-shadow: 0 1px 1px rgba(255, 255, 255, 0.75); vertical-align: middle; background-color: #f5f5f5; background-image: -moz-linear-gradient(top, #ffffff, #e6e6e6); background-image: -ms-linear-gradient(top, #ffffff, #e6e6e6); background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#ffffff), to(#e6e6e6)); background-image: -webkit-linear-gradient(top, #ffffff, #e6e6e6); background-image: -o-linear-gradient(top, #ffffff, #e6e6e6); background-image: linear-gradient(top, #ffffff, #e6e6e6); background-repeat: repeat-x; filter: progid:dximagetransform.microsoft.gradient(startColorstr=#ffffff, endColorstr=#e6e6e6, GradientType=0); border-color: #e6e6e6 #e6e6e6 #e6e6e6; border-color: rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.25); border: 1px solid #e6e6e6; -webkit-border-radius: 4px; -moz-border-radius: 4px; border-radius: 4px; -webkit-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05); -moz-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05); box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05); cursor: pointer; \*margin-left: .3em; } |
|  |  | .btn:hover, .btn:active, .btn.active, .btn.disabled, .btn[disabled] { background-color: #e6e6e6; } |
|  |  | .btn-large { padding: 9px 14px; font-size: 15px; line-height: normal; -webkit-border-radius: 5px; -moz-border-radius: 5px; border-radius: 5px; } |
|  |  | .btn:hover { color: #333333; text-decoration: none; background-color: #e6e6e6; background-position: 0 -15px; -webkit-transition: background-position 0.1s linear; -moz-transition: background-position 0.1s linear; -ms-transition: background-position 0.1s linear; -o-transition: background-position 0.1s linear; transition: background-position 0.1s linear; } |
|  |  | .btn-primary, .btn-primary:hover { text-shadow: 0 -1px 0 rgba(0, 0, 0, 0.25); color: #ffffff; } |
|  |  | .btn-primary.active { color: rgba(255, 255, 255, 0.75); } |
|  |  | .btn-primary { background-color: #4a77d4; background-image: -moz-linear-gradient(top, #6eb6de, #4a77d4); background-image: -ms-linear-gradient(top, #6eb6de, #4a77d4); background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#6eb6de), to(#4a77d4)); background-image: -webkit-linear-gradient(top, #6eb6de, #4a77d4); background-image: -o-linear-gradient(top, #6eb6de, #4a77d4); background-image: linear-gradient(top, #6eb6de, #4a77d4); background-repeat: repeat-x; filter: progid:dximagetransform.microsoft.gradient(startColorstr=#6eb6de, endColorstr=#4a77d4, GradientType=0); border: 1px solid #3762bc; text-shadow: 1px 1px 1px rgba(0,0,0,0.4); box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.5); } |
|  |  | .btn-primary:hover, .btn-primary:active, .btn-primary.active, .btn-primary.disabled, .btn-primary[disabled] { filter: none; background-color: #4a77d4; } |
|  |  | .btn-block { width: 100%; display:block; } |
|  |  |  |
|  |  | \* { -webkit-box-sizing:border-box; -moz-box-sizing:border-box; -ms-box-sizing:border-box; -o-box-sizing:border-box; box-sizing:border-box; } |
|  |  |  |
|  |  | html { width: 100%; height:100%; overflow:hidden; } |
|  |  |  |
|  |  | body { |
|  |  | width: 100%; |
|  |  | height:100%; |
|  |  | font-family: 'Open Sans', sans-serif; |
|  |  | background: #092756; |
|  |  | color: #fff; |
|  |  | font-size: 18px; |
|  |  | text-align:center; |
|  |  | letter-spacing:1.2px; |
|  |  | background: -moz-radial-gradient(0% 100%, ellipse cover, rgba(104,128,138,.4) 10%,rgba(138,114,76,0) 40%),-moz-linear-gradient(top, rgba(57,173,219,.25) 0%, rgba(42,60,87,.4) 100%), -moz-linear-gradient(-45deg, #670d10 0%, #092756 100%); |
|  |  | background: -webkit-radial-gradient(0% 100%, ellipse cover, rgba(104,128,138,.4) 10%,rgba(138,114,76,0) 40%), -webkit-linear-gradient(top, rgba(57,173,219,.25) 0%,rgba(42,60,87,.4) 100%), -webkit-linear-gradient(-45deg, #670d10 0%,#092756 100%); |
|  |  | background: -o-radial-gradient(0% 100%, ellipse cover, rgba(104,128,138,.4) 10%,rgba(138,114,76,0) 40%), -o-linear-gradient(top, rgba(57,173,219,.25) 0%,rgba(42,60,87,.4) 100%), -o-linear-gradient(-45deg, #670d10 0%,#092756 100%); |
|  |  | background: -ms-radial-gradient(0% 100%, ellipse cover, rgba(104,128,138,.4) 10%,rgba(138,114,76,0) 40%), -ms-linear-gradient(top, rgba(57,173,219,.25) 0%,rgba(42,60,87,.4) 100%), -ms-linear-gradient(-45deg, #670d10 0%,#092756 100%); |
|  |  | background: -webkit-radial-gradient(0% 100%, ellipse cover, rgba(104,128,138,.4) 10%,rgba(138,114,76,0) 40%), linear-gradient(to bottom, rgba(57,173,219,.25) 0%,rgba(42,60,87,.4) 100%), linear-gradient(135deg, #670d10 0%,#092756 100%); |
|  |  | filter: progid:DXImageTransform.Microsoft.gradient( startColorstr='#3E1D6D', endColorstr='#092756',GradientType=1 ); |
|  |  |  |
|  |  | } |
|  |  | .login { |
|  |  | position: absolute; |
|  |  | top: 40%; |
|  |  | left: 50%; |
|  |  | margin: -150px 0 0 -150px; |
|  |  | width:400px; |
|  |  | height:400px; |
|  |  | } |
|  |  |  |
|  |  | .login h1 { color: #fff; text-shadow: 0 0 10px rgba(0,0,0,0.3); letter-spacing:1px; text-align:center; } |
|  |  |  |
|  |  | input { |
|  |  | width: 100%; |
|  |  | margin-bottom: 10px; |
|  |  | background: rgba(0,0,0,0.3); |
|  |  | border: none; |
|  |  | outline: none; |
|  |  | padding: 10px; |
|  |  | font-size: 13px; |
|  |  | color: #fff; |
|  |  | text-shadow: 1px 1px 1px rgba(0,0,0,0.3); |
|  |  | border: 1px solid rgba(0,0,0,0.3); |
|  |  | border-radius: 4px; |
|  |  | box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2); |
|  |  | -webkit-transition: box-shadow .5s ease; |
|  |  | -moz-transition: box-shadow .5s ease; |
|  |  | -o-transition: box-shadow .5s ease; |
|  |  | -ms-transition: box-shadow .5s ease; |
|  |  | transition: box-shadow .5s ease; |
|  |  | } |
|  |  | input:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px rgba(255,255,255,0.2); } |

 49  [ml-proj/flask/templates/ana.html](https://github.com/SmartPracticeschool/llSPS-INT-3193-Liver-patient-analysis/commit/170d654c13cb782d93817ec63ed1466c3f3f5391#diff-2b1e3c154f4c08754d9b8afa66246a93cdd147d7fade2c709261b623af8a3953)

|  |  |  |
| --- | --- | --- |
|  |  | @@ -0,0 +1,49 @@ |
|  |  | <!DOCTYPE html> |
|  |  | <html > |
|  |  | <!--From https://codepen.io/frytyler/pen/EGdtg--> |
|  |  | <head> |
|  |  | <meta charset="UTF-8"> |
|  |  | <title>analysis API</title> |
|  |  | <link href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet' type='text/css'> |
|  |  | <link href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet' type='text/css'> |
|  |  | <link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet' type='text/css'> |
|  |  | <link href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300' rel='stylesheet' type='text/css'> |
|  |  | <link rel="stylesheet" href="{{ url\_for('static', filename='css/style.css') }}"> |
|  |  |  |
|  |  | <style> |
|  |  | .login{ |
|  |  | top: 20%; |
|  |  | } |
|  |  | </style> |
|  |  | </head> |
|  |  |  |
|  |  | <body> |
|  |  | <div class="login"> |
|  |  | <h1>Liver Patient Analysis Prediction</h1> |
|  |  |  |
|  |  | <!-- Main Input For Receiving Query to our ML --> |
|  |  | <form action="{{ url\_for('y\_predict')}}"method="post"> |
|  |  | <input type="int" name="Age" placeholder="age" required="required" /> |
|  |  | <input type="int" name="Gender" placeholder="gend" required="required" /> |
|  |  | <input type="int" name="Total Bilirubin" placeholder="total bilirubin" required="required" /> |
|  |  | <input type="int" name="Direct Bilirubin" placeholder="direct bilirubin" required="required" /> |
|  |  | <input type="int" name="Alkaline phosphotase" placeholder="alkaline phosphotase" required="required" /> |
|  |  | <input type="int" name="Alamine Aminotransferase" placeholder="alamine aminotransferase" required="required" /> |
|  |  | <input type="int" name="Aspartate Aminotransferase " placeholder="aspartate aminotransferase" required="required" /> |
|  |  | <input type="int" name="Total Protiens" placeholder="total proteins" required="required" /> |
|  |  | <input type="int" name="Albumin " placeholder="albumin" required="required" /> |
|  |  | <input type="int" name="Albumin and Globulin Ratio" placeholder="albumin and globulin ratio " required="required" /> |
|  |  | <button type="submit" class="btn btn-primary btn-block btn-large">Predict</button> |
|  |  |  |
|  |  | </form> |
|  |  |  |
|  |  | <br> |
|  |  | <br> |
|  |  | {{ prediction\_text }} |
|  |  |  |
|  |  | </div> |
|  |  |  |
|  |  |  |
|  |  | </body> |
|  |  | </html> |