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Submitted To: GitHub

Steps of Deployment

1. Building a model and downloading it as 'model.pkl'



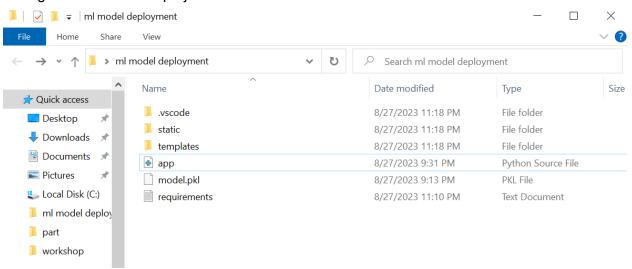
2. Creating the app.py file, uploading the model file there and writing the code to integrate with index.html for flask web application

```
import numpy as np
 from flask import Flask, request, render_template
 import pickle
app = Flask(__name__)
model = pickle.load(open('model.pkl', 'rb'))
 @app.route('/')
 def home():
    return render_template('index.html')
 @app.route('/predict', methods=['POST'])
 def predict():
     For rendering results on HTML GUI
     age = float(request.form['age'])
     sex = float(request.form['sex'])
     bmi = float(request.form['bmi'])
     bp = float(request.form['bp'])
     s1 = float(request.form['s1'])
s2 = float(request.form['s2'])
     s3 = float(request.form['s3'])
     s4 = float(request.form['s4'])
    s5 = float(request.form['s5'])
s6 = float(request.form['s6'])
    user_input = [[age, sex, bmi, bp, s1, s2, s3, s4, s5, s6]]
prediction = model.predict(user_input)
 output = prediction[0]
    return render_template('index.html', prediction_text='Predicted diabetes progression: {}'.format(output))
if __name__ == "__main__":
    app.run(debug=True)
```

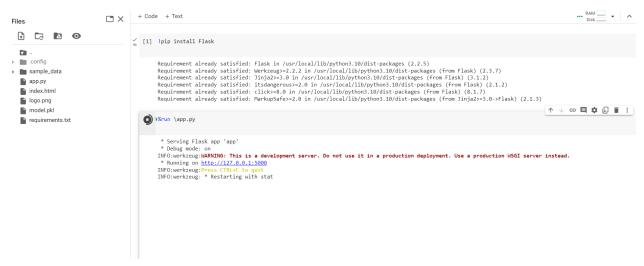
3. Creating and formatting the index.html file

```
ogin input[type="text"] {
                                                 width: 50%;
                                                 padding: 10px;
                                                 margin-top: 10px;
border: 1px solid ■#ccc;
                                                   font-size: 14px;
                                                 width: 100%;
                                                 padding: 10px;
                                                background-color: □#a0128b; color: □#fff;
                                                 border: none;
                                                 border-radius: 3px;
                                                   font-size: 16px;
                                                 width: 200px;
                                                 position: absolute;
                                                 left: 10px;
<!-- Main Input For Receiving Query to our ML -->
<form action="\{\text{un_for('predict')}}\text{" name="age" placeholder="Age" required="required">
cinput type="text" name="age" placeholder="Sex (o for female, 1 for male)" required="required"
cinput type="text" name="bmi" placeholder="SHI" required="required">
cinput type="text" name="bmi" placeholder="BHI" required="required">
cinput type="text" name="bmi" placeholder="BHI" required="required">
cinput type="text" name="bmi" placeholder="Si" required="required">
cinput type="text" name="si" name="bmi" name="si" 
                                   <anput type='text' name='s1' placeholder='S2' required' required'
input type='text' name='s2' placeholder='S2' required''
input type='text' name='s3' placeholder='S3' required''required''
input type='text' name='s3' placeholder='S4' required''required''
input type='text' name='s5' placeholder='S5' required''required''
input type='text' name='s6' placeholder='S6' required''required''</pre>
                {{ prediction_text }}
```

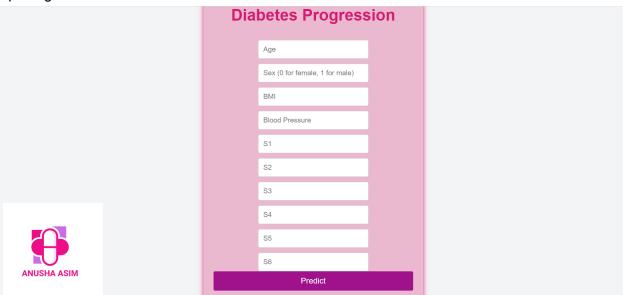
4. Saving all the files in the project folder



5. Uploading the files on a new Google Colab Notebook and Running



6. Opening the link



7. Entering the data to see prediction

