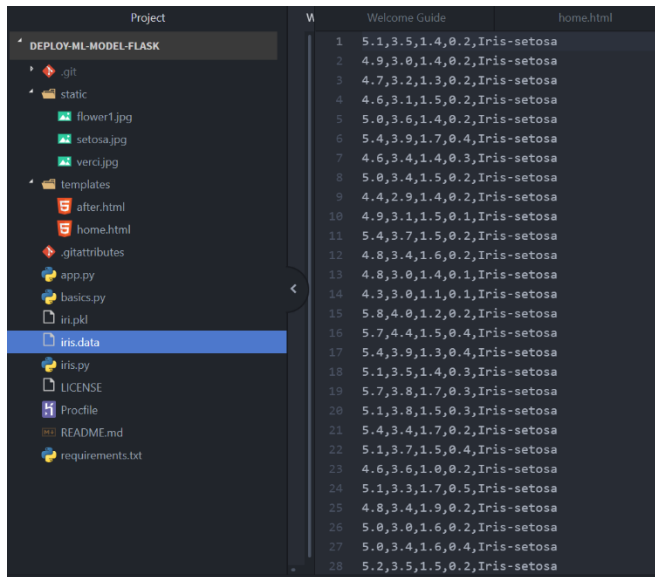
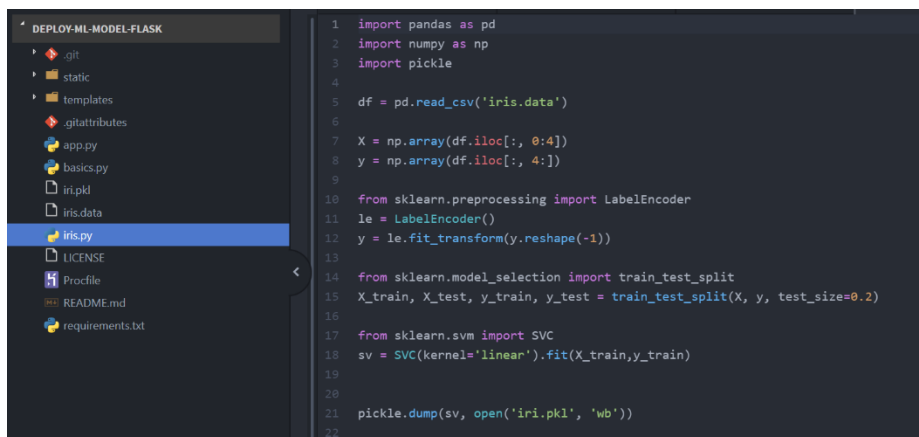


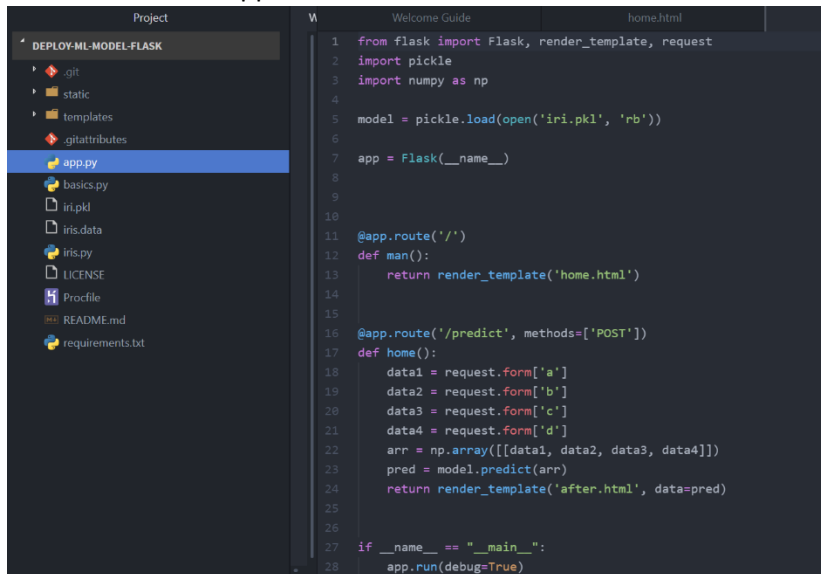
In this project I started off by collecting data, Iris data.



I built a simple machine learning model to classify the different flowers depending on their features.



I then built a flask app to host the code.



The screenshot shows a code editor with a project sidebar on the left and a code editor on the right. The sidebar shows a project named 'DEPLOY-ML-MODEL-FLASK' with files like .git, static, templates, .gitattributes, app.py, basics.py, iri.pkl, iris.data, iris.py, LICENSE, Profile, README.md, and requirements.txt. The code editor shows the app.py file with the following code:

```
1 from flask import Flask, render_template, request
2 import pickle
3 import numpy as np
4
5 model = pickle.load(open('iri.pkl', 'rb'))
6
7 app = Flask(__name__)
8
9
10
11 @app.route('/')
12 def man():
13     return render_template('home.html')
14
15
16 @app.route('/predict', methods=['POST'])
17 def home():
18     data1 = request.form['a']
19     data2 = request.form['b']
20     data3 = request.form['c']
21     data4 = request.form['d']
22     arr = np.array([[data1, data2, data3, data4]])
23     pred = model.predict(arr)
24     return render_template('after.html', data=pred)
25
26
27 if __name__ == "__main__":
28     app.run(debug=True)
```

After that I built html files to for the front end of the flask app



The screenshot shows a code editor with a project sidebar on the left and a code editor on the right. The sidebar shows the same project as the previous screenshot, but with additional files like after.html and home.html. The code editor shows the home.html file with the following code:

```
1 <html>
2 <body bgcolor=#d4a3ae>
3
4     <center>
5
6         <h1> IRIS FLOWER DETECTION </h1><br>
7
8         <form method="POST", action="{{url_for('home')}}">
9             <b> First value : <input type="text", name='a', placeholder="enter 1"> <br><br>
10             Second value : <input type="text", name='b', placeholder="enter 2"> <br><br>
11             Third value : <input type="text", name='c', placeholder="enter 3"> <br><br>
12             Fourth value : <input type="text", name='d', placeholder="enter 4"> <br><br><br></b>
13             <input type="submit" , value='predict!' >
14         </form>
15
16         <img src='static\flower1.jpg' alt="flower">
17
18     </center>
19
20 </body>
21 </html>
22
```

I also built another html file to represent the output I would get from the machine learning model.

```

<html>

<body bgcolor=#a3cfb4>

    <center>

        <h1> PREDICTION : </h1>

        {%if data == 0%}
        <h1>Iris-setosa</h1>
        <img src='static\setosa.jpg'>

        {%else%}
        <h1>Iris-versicolor</h1>
        <img src='static\verci.jpg'>

        {%endif%}

        <br><br>
        <a href='/'>go back to home page</a>

    </center>

</body>

</html>

```

The website hosted on local host. It allows the user to enter data and makes predictions on the dataset

127.0.0.1:5000

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IRIS FLOWER DETECTION

First value :

Second value :

Third value :

Fourth value :



The prediction for the above values is shown below.



I hosted the Flask app with python anywhere .com (<http://kelvinmpofu1.pythonanywhere.com/>)

kelvinmpofu1.pythonanywhere.com

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IRIS FLOWER DETECTION

First value :

Second value :

Third value :

Fourth value :

