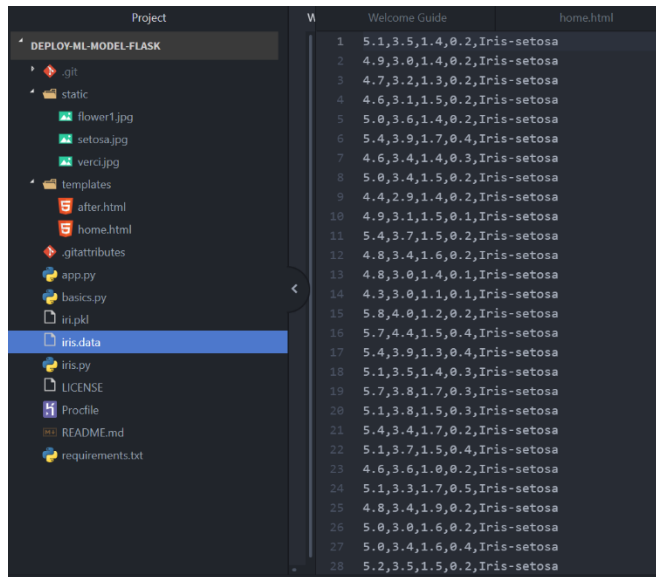
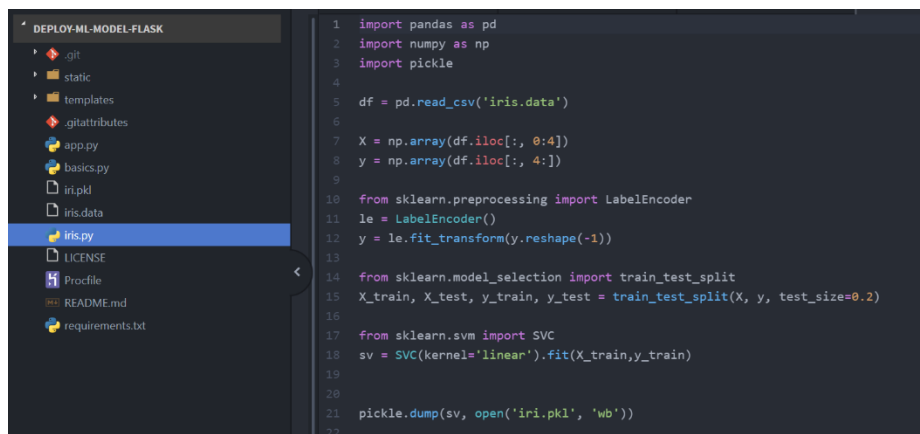


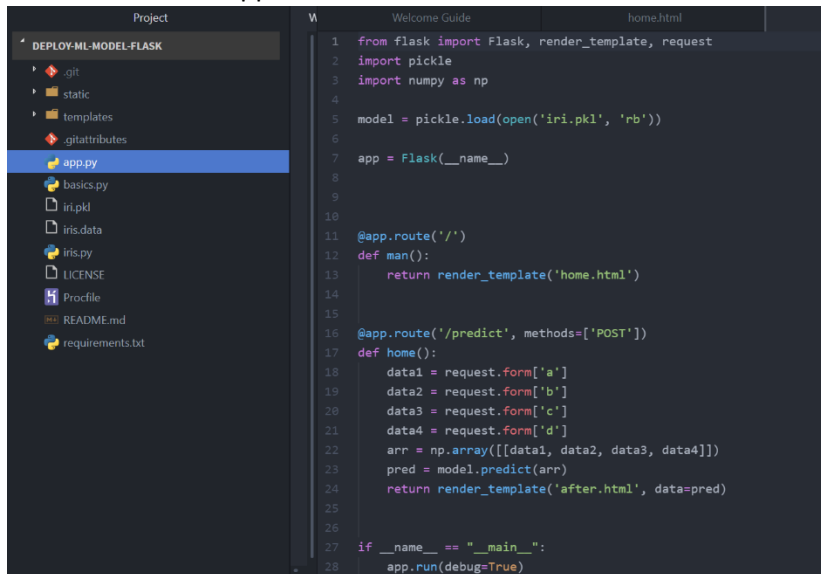
In this project I started off by collecting data, Iris data.



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 file explorer on the left and a code editor on the right. The file explorer 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 following Python 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 file explorer on the left and a code editor on the right. The file explorer 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 following HTML 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

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IRIS FLOWER DETECTION

First value :

Second value :

Third value :

Fourth value :



The prediction for the above values is shown below.

PREDICTION :

Iris-setosa

