Info

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1. train a simple model

```python
import sklearn
from sklearn.linear_model import LogisticRegression
from sklearn.datasets import load_iris
import numpy as np
import pickle
```
✓ 0.4s   Python

```python
X, y = load_iris(return_X_y=True)
lr = LogisticRegression()
lr.fit(X, y)
```
Python

2. save the model

```python
file_name = 'trained_model.sav'
pickle.dump(lr, open(file_name, 'wb'))
loaded_model = pickle.load(open(file_name, 'rb'))
```
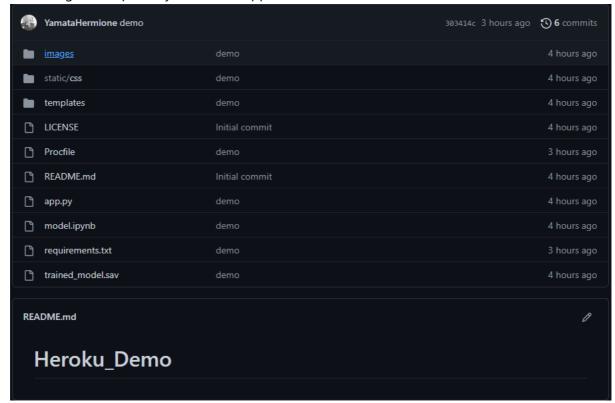✓ 0.4s   Python

3. make a web app

```python
app.py > index
1  from flask import Flask, render_template, request
2  import pickle
3  import numpy as np
4
5  app = Flask(__name__)
6  model = pickle.load(open('trained_model.sav', 'rb'))
7  labels = ['setosa', 'versicolor', 'virginica']
8
9  @app.route('/') #http://google/com/
10 def index():
11     return render_template('index.html',
12                 info = 'Predicting type of Iris from give information. Types of iris: {}, {} and {}'
13                 .format(labels[0], labels[1], labels[2]))
14
15 @app.route('/predict', methods=['POST'])
16 def predict():
17     features = [np.array([float(x) for x in request.form.values()])]
18     prediction = model.predict(features)
19     output = labels[prediction.item()]
20     return render_template('index.html', prediction_text='Type of Iris is {}'.format(output))
21
22
23 app.run(port=5000, debug=True)
```

4. Deploy the model on Heroku

1. Create a github repository for heroku app

2. Connect heroku to github

3. Deploy the model

5. Done