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Submitted on June 5,2025

All of the pictures and steps are shown below with code:

1. The first photo sets the dataset and the model training
2. The second file shows the procfile file.
3. The third one shows the requirements file.
4. The fourth one trains the model with the data we want and sets the criteria. It was Python code to train a binary classifier to detect Setosa flowers. The model was saved as 'model.pkl'.
5. The fifth one shows the heroku website account working.
6. The sixth one shows the product actually in github.


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
SCROLL DOWN!

```


app.py X
app.py > ...
1  from flask import Flask, request, jsonify, render_template
2  import joblib
3  import numpy as np
4
5  app = Flask(__name__)
6  model = joblib.load('model.pkl')
7
8  @app.route('/')
9  def home():
10     return render_template('index.html')
11
12  @app.route('/predict', methods=['POST'])
13  def predict():
14     features = [float(x) for x in request.form.values()]
15     prediction = model.predict([features])[0]
16     result = "Setosa 🌸" if prediction == 1 else "Not Setosa 🌿"
17     return render_template('index.html', prediction_text=f"Prediction: {result}")
18
19  @app.route('/predict_api', methods=['POST'])
20  def predict_api():
21     data = request.get_json(force=True)
22     values = np.array(list(data.values())).reshape(1, -1)
23     prediction = model.predict(values)
24     return jsonify({'prediction': int(prediction[0])})
25
26  if __name__ == "__main__":
27     app.run(debug=True)
28

```

 app.py

 Procfile

X

 Procfile

1 web: gunicorn app:app

```
app.py requirements.txt X
requirements.txt
1 flask
2 scikit-learn
3 joblib
4 numpy
5 gunicorn
6
```

```
train_model.py > ...
1 from sklearn.datasets import load_iris
2 from sklearn.linear_model import LogisticRegression
3 import joblib
4
5 # Load dataset
6 iris = load_iris()
7 X = iris.data
8 y = (iris.target == 0).astype(int) # Binary: Setosa or not
9
10 # Train model
11 model = LogisticRegression()
12 model.fit(X, y)
13
14 # Save model
15 joblib.dump(model, 'model.pkl')
16 print("Model saved as model.pkl")
17
```

Manage Account

Account Applications Billing

Profile

Your email address is your identity on Heroku and is used to log in.



Email Address

rishasyaraman@gmail.com

Name (Optional)

Rish Ram

Manage your avatar using [Gravatar](#).

Password

Changing your password will also reset your API key.

Current Password

enter your current password



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1 Commit



Procfile

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app.py

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index.html

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model.pkl

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requirements.txt

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train_model.py

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