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DEPLOYMENT ON FLASK

Step1:

Creating the model

1- Importing libraries and initiating the model

```
In [1]: import pickle
    import pandas as pd
    import numpy as np

In [2]: df = pd.read_csv("iris.data.csv")

In [3]: from sklearn.neighbors import KNeighborsClassifier

In [4]: cla = KNeighborsClassifier(n_neighbors=3)
```

2- Reshaping the data

3- Creating the model

```
c:\users\نالار) appdata\local\programs\python\python39\lib\site-packages\sklearn\neighbors\classification.py:179: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n_samples,), for example using ravel().

KNeighborsClassifier(n_neighbors=3)

In [11]: cla.predict([x[1]])

array([0])
```

4- Pickling the model and deploying it on flask

```
with open('model.pkl','wb') as classifier:
      pickle.dump(cla,classifier)
  from flask import Flask, render_template, request
  app=Flask(__name__)
  model=pickle.load(open('cla.pkl','rb'))
  @app.route('/')
  def home():
      return "Hi"
  @app.route('/predict',methods=['POST'])
  def predict():
      int_features=[float(x) for x in request.form.values()]
      final_features=[np.array(int_features)]
      prediction=model.predict(final_features)
      output = round(prediction[0], 2)
      return output
  app.run(debug=True)
```