# Deployment on Flask

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#### Model

```
pimport pandas as pd
import pickle
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import LabelEncoder

Gfrom sklearn.svm import SVC

fish_set = pd.read_csv('Fish.csv')

x = fish_set["Weight"_"Length1"_"Length2"_"Length3"_"Height"_"Width"]]
y = fish_set["Species"]

label = LabelEncoder()
y = label.fit_transform(y)

x_train, x_test, y_train, y_test = train_test_split(x_vy_test_size=0.3_random_state=58)

sv = SVC(kernel_=_"linear").fit(x_train_vy_train)
pickle.dump(sv_open('model.pkl'_\(\(\frac{1}{2}\)\)'wb'))
```

#### app.py:

```
cimport numpy as np
from flask import Flask, request, render_template
import pickle
cimport pandas as pd

app = Flask(__name__)
model = pickle.load(open('model.pkl'_i'rb'))
fish_set = pd.read_csv('Fish.csv')
fish_category = list(dict.fromkeys(fish_set["Species"]))

@app.route('/')
odef hello_world():  # put application's code here
    return render_template("index.html")

@app.route('/predict', methods = ['POST'])
odef predict():
    int_features = [int(x) for x in request.form.values()]
    final_features = [np.array(int_features)]
    prediction = model.predict(final_features)
    return render_template('index.html', prediction_text=' fish is '± fish_category[prediction[0]])

if __name__ == '__main__':
    app.run()
```

### Index.html

```
c!DOCTYPE html>
chtml lang="en">
cheado
    cmeta charset="UTF-8">
ctitle>ML API</title>
ctitle>ML API</title>
clink href='https://fonts.googleapis.com/css?family=Pacificg' rel='stylesheet' type='text/css'>
    clink href='https://fonts.googleapis.com/css?family=Haning' rel='stylesheet' type='text/css'>
    clink href='https://fonts.googleapis.com/css?family=Haning' rel='stylesheet' type='text/css'>
    clink href='https://fonts.googleapis.com/css?family=indi.300' rel='stylesheet' type='text/css'>
    clink href='https://fonts.googleap
```

# Final

### **Predict Fish**



fish is Bream