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Submitted to Canvas

```
from flask import Flask, request, render template
import numpy as np
import pickle
app = Flask(__name__)
model = pickle.load(open("model.pkl", "rb"))
@app.route("/") # home root
def home():
    return render_template("index.html")
@app.route("/predict", methods=["POST"]) # prediction post method for submission
def predict():
    args = [int(x) for x in request.form.values()]
    prediction = model.predict([np.array(args)])
    output = round(prediction[0], 2)
    return render_template(
        "index.html", prediction="You can expect to charge ${}".format(output)
if __name__ == "__main__":
    app.run(debug=True)
```

```
H Procfile

1 web: gunicorn app:app
```

```
from sklearn import linear_model
import pandas as pd
import numpy as np
import pickle
# build model for predicting price charged by Pink Cab in Boston
df = pd.read_csv("finalCabData.csv")
filteredDf = df[(df["City"] == "BOSTON MA")]
filteredDf = filteredDf[filteredDf["Company"] == "Pink Cab"]
x = np.array(filteredDf[["KM Travelled", "Cost of Trip"]])
y = np.array(filteredDf["Price Charged"])
model = linear_model.LinearRegression()
model.fit(x, y)
#save model to pickle file
pickle.dump(model, open("model.pkl", "wb"))
```

```
<!DOCTYPE html>
<html lang="en">
 <head>
   <meta charset="utf-8" />
   <title>Predictor</title>
  </head>
     <form action="/predict" method="post">
       <input
         type="text"
         name="Distance"
        placeholder="Distance Travelled in KM"
       />
       <input type="text" name="Cost" placeholder="Cost of Trip" />
       <button type="submit">Submit</button>
     </form>
     {{prediction}}
   </div>
   link
     rel="stylesheet"
    href="{{url_for('static', filename='css/styles.css')}}"
   />
 </body>
</html>
```

```
html {
    background-color: □ red;
    color: □ white;
}

div {
    width: 50%;
    margin: auto;
    align-items: center;
}

form {
    width:fit-content;
    margin:auto;
}
```





