Name: Yashwanth Reddy Bomma Reddy

Batch Code: LISUM20

Submission Date: 28-04-2023

Submitted To: Data Glacier

Imported Linnerud toy data and used it for model prediction

```
In [36]:
import pickle
models = {"model":model,"model2":model2}
with open("models.pkl","wb") as file:
    pickle.dump(models,file)
In [42]: with open("models.pkl","rb") as file:
    models = pickle.load(file)
print(models["model"].predict([[0.923824,16.507468,1.488591]]))
  In [3]: data = load_linnerud().data
            target = load_linnerud().target
feature_names = load_linnerud().feature_names
target_names = load_linnerud().target_names
  In [4]: df1 = pd.DataFrame(data, columns = feature_names)
df2 = pd.DataFrame(target, columns = target_names)
  In [5]: df1.head()
                Chins Situps Jumps
             0 5.0 162.0 60.0
              1 2.0 110.0 60.0
             2 12.0 101.0 101.0
             3 12.0 105.0 37.0
             4 13.0 155.0 58.0
  In [6]: df2.head()
  Out[6]: Weight Waist Pulse
             0 191.0 36.0 50.0
              1 189.0 37.0 52.0
             2 193.0 38.0 58.0
             3 162.0 35.0 62.0
            4 189.0 35.0 46.0
```

Saving the prediction model to pickle file

```
In [36]: import pickle
    models = {"model":model, "model2":model2}
    with open("models.pkl", "wb") as file:
        pickle.dump(models, file)

In [42]: with open("models.pkl", "rb") as file:
        models = pickle.load(file)
    print(models["model"].predict([[0.923824,16.507468,1.488591]]))

        [a 83175300]
```

Deployed the model on flask

Flask run

```
PS C:\Users\yashw\OneDrive\Desktop\Data Glacier\Flask deployment> $env:FLASK_APP = "flask_week3.py"

PS C:\Users\yashw\OneDrive\Desktop\Data Glacier\Flask deployment> python -m flask run

* Serving Flask app 'flask_week3.py'

* Debug mode: off

#ARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.

* Running on http://127.0.0.1:5000

Press CTRL+C to quit

127.0.0.1 - - [28/Apr/2023 23:00:29] "POST /week3/flask HTTP/1.1" 200 -
```

Tested on postman

