

Your Deep Learning Partner

# **VIRTUAL INTERNSHIP**

# **DATA ANALYSIS**

LISUM01
DEPLOYMENT ON FLASK

**Payal Upadhyay** 

2021/07/02

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Name: Payal Upadhyay

Batch Code: LISUM01

Submission Date: 2021/07/02

Submitted to: https://github.com/payal-upadhyay/Week4

#### Introduction

I used the file StudentPerformance.csv (available on <a href="www.kaggle.com">www.kaggle.com</a>) to deploy the model using flask. The objective was to predict the writing score based on reading score and math score. The data was split into a training set (70%) and a test set (30%). I used linear regression to make the prediction. Snapshots of the files created in the process and the final outcome is provided below.

#### app.py

```
Spyder (Python 3.8)
File Edit Search Source Run Debug Consoles Projects Tools View Help
                                       C:\Users\Payal\week4
C:\Users\Payal\week4\app.py
Model.py × index.html × app.py ×
           import numpy as np
from flask import Flask, request, render_template
import pickle
           app= Flask(__name__)
model= pickle.load(open('model.pkl','rb'))
           @app.route('/')
def home():
               return render_template('index.html')
           @app.route('/predict',methods=['POST'])
def predict():
                int_features = [int(x) for x in request.form.values()]
               final features = [np.array(int_features)]
prediction = model.predict(final_features)
               output = round(prediction[0],2)
               return render_template('index.html', prediction_text = 'Writing score is predicted to be {} %'.format(output))
           if __name__ == "__main__":
app.run(port=5000, debug = True)
```

### Model.py

#### index.html

## Command Prompt:

```
C:\Users\Payal\week4\python app.py

* Serving Flask app 'app' (lazy loading)

* Environment: production

WARNING: This is a development server. Do not use it in a production deployment

Use a production WSGI server instead.

* Debug mode: on

* Restarting with stat

* Debugger is active!

* Debugger PIN: 668-404-510

* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

## Final webpage outcome:

# PREDCTING THE WRITING SCORE Math Score Reading Score PREDICT Writing score is predicted to be \$5.12 %