

Your Deep Learning Partner

VIRTUAL INTERNSHIP

DATA ANALYSIS

LISUM01
DEPLOYMENT ON FLASK

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Introduction

I used the file StudentsPerformance.csv (available on www.kaggle.com) 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 %