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Submitted to: Data Glacier

STEP 1: CREATING AND SAVING THE MACHINE LEARNING MODEL

The Linear regression model was trained to predict student scores based on sleep and studying hours.

The model was then saved using Python's Pickle module.

STEP 2: CREATING THE FLASK APP

A new file app.py was created in the same directory as the model and the model was then loaded into the flask file.

```
app.py

■ requirements.txt

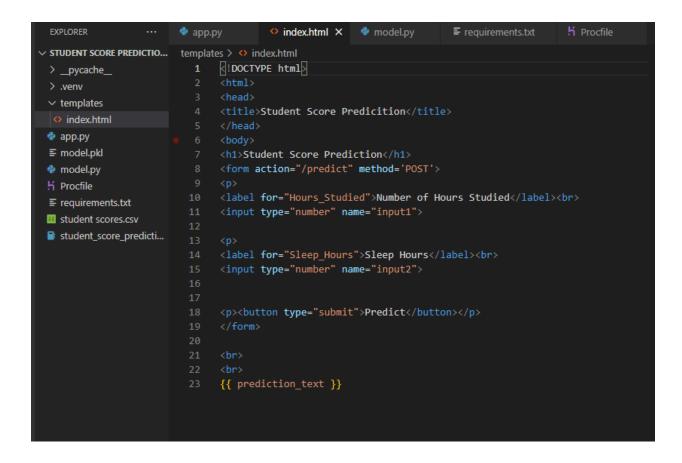
✓ STUDENT SCORE PREDICTIO...

                        app.py > ...
                          1 from flask import Flask, request, render_template
 > _pycache_
                              import pickle
 > .venv
                              import numpy as np
 > templates
                              import os
app.py
 ■ model.pkl
                              app = Flask(__name__)
model.py
                              APP_ROOT = os.path.dirname(os.path.abspath(__file__))
H Procfile

≡ requirements.txt

                              MODEL_PATH = os.path.join(APP_ROOT, "model.pkl")
student scores.csv
student_score_predicti...
                              model = pickle.load(open(MODEL_PATH, "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)
                                                prediction_text = "The predicted"
                                  return rende
                                                (module) __main__
                              if __name__ == "__main__":
                                  app.run(debug=True)
```

STEP 3: CREATING an HTML page that contains a form to fill out values that will be sent as input to the model and will return the results when the "Predict" button is clicked



STEP 4: Running python app.py in the terminal and getting the URL: http://127.0.0.1:5000

```
* Serving Flask app 'app'

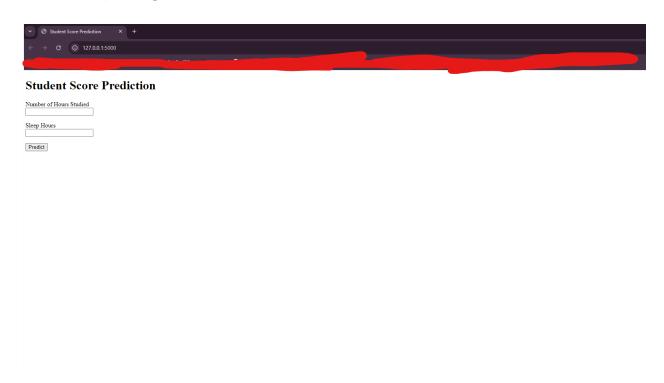
* Debug mode: on

WARNING: 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
```

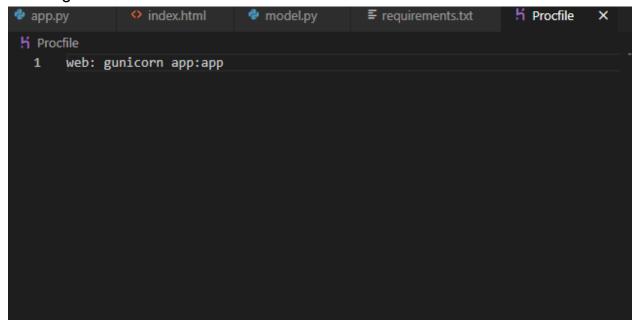
STEP 5: Opening the URL



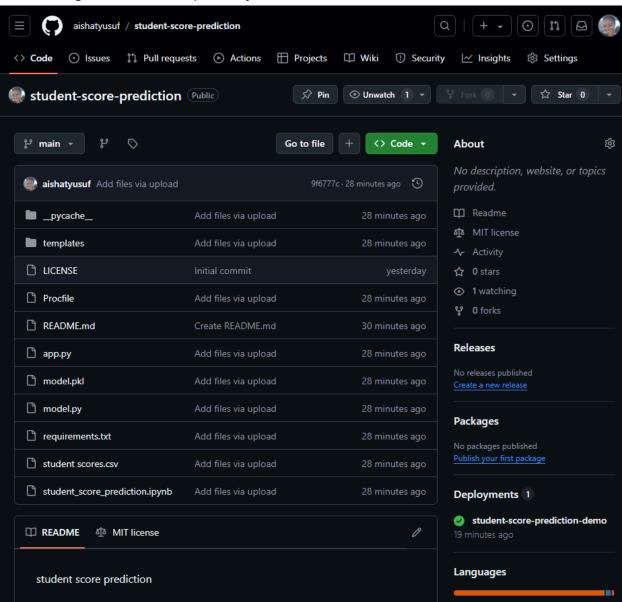
DEPLOYING ON HEROKU

STEP 6:

Creating a Procfile

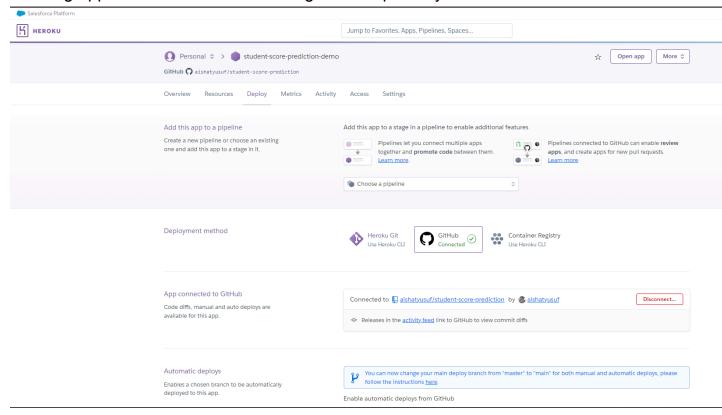


STEP 7:Committing code into a repository on GitHub



STEP 8:

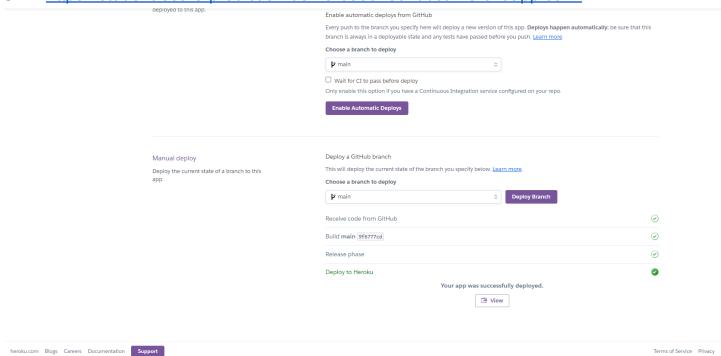
Creating app on Heroku and connecting to the repository



STEP 9:

Successful Deployment.

URL: https://student-score-prediction-demo-b8861ec7bbca.herokuapp.com/





Student Score Prediction

Number of Hours Studied	
4	
Sleep Hours	
5	
Predict	