DataGlacier: Week4 → Model deployment using Flask

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Steps:

- ➔ Create the project folder: **senayit_project**
- ➔ Create a virtual environment: **senayit_env**
- ➔ Add the model Python file **(model.py)** to the project folder senayit_project
- ➔ Add the pickle file (**model.pkl**) to the project folder senayit_project
- ➔ Create the **template/HTML** files in the project folder senayit_project
- ➔ Train the model using appropriate data and save it as **model.pkl** in the project folder senayit_project
- ➔ Run the **app.py** file to start the Flask application

```
Command Prompt                                                    —   □   ✕

drwxr-xr-x 1 Senait Alazar 197609 0 Jun  1 21:54 ..

C:\Users\Senait Alazar\senayit_project>python -m venv senayit_env

C:\Users\Senait Alazar\senayit_project>touch app.py

C:\Users\Senait Alazar\senayit_project>touch train.py

C:\Users\Senait Alazar\senayit_project>mkdir templates

C:\Users\Senait Alazar\senayit_project>cd templates

C:\Users\Senait Alazar\senayit_project\templates>touch index.html

C:\Users\Senait Alazar\senayit_project\templates>cd ..

C:\Users\Senait Alazar\senayit_project>code .

C:\Users\Senait Alazar\senayit_project>echo "Training The Model"
"Training The Model"

C:\Users\Senait Alazar\senayit_project>python train.py

C:\Users\Senait Alazar\senayit_project>cd senayit_env

C:\Users\Senait Alazar\senayit_project\senayit_env>cd Scripts

C:\Users\Senait Alazar\senayit_project\senayit_env\Scripts>activate

(senayit_env) C:\Users\Senait Alazar\senayit_project\senayit_env\Scripts>
```

```
(senayit_env) C:\Users\Senait Alazar\senayit_project>python app.py
C:\Users\Senait Alazar\senayit_project\senayit_env\lib\site-packages\sklearn\base.py:318: UserWarning:
Trying to unpickle estimator LinearRegression from version 1.1.3 when using version 1.2.2. This might l
ead to breaking code or invalid results. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
C:\Users\Senait Alazar\senayit_project\senayit_env\lib\site-packages\sklearn\base.py:318: UserWarning:
Trying to unpickle estimator StandardScaler from version 1.1.3 when using version 1.2.2. This might lea
d to breaking code or invalid results. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
 * 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
 * Restarting with stat
```

Linear Regression Prediction

Feature 1: 2
Feature 2: 3
Feature 3: 12
Feature 4: 23

Predict

Prediction:

25.5