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Batch code -LISUM32

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Submitted to – Data Glacier

Checking python version and setting up the virtual environment

```
PS C:\Users\apurw> python --version
Python 3.11.3
PS C:\Users\apurw> python -m venv venv
```

Making sure required packages are installed.

```
PS C:\Users\apurw> pip install pandas scikit-learn joblib flask numpy
Requirement already satisfied: pandas in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (1.5.3)
Requirement already satisfied: scikit-learn in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (1.3.1)
Requirement already satisfied: joblib in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (1.3.2)
Requirement already satisfied: flask in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (3.0.3)
Requirement already satisfied: numpy in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (1.26.1)
Requirement already satisfied: python-dateutil>=2.8.1 in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (from pandas) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (from pandas) (2023.3.post1)
Requirement already satisfied: scipy>=1.5.0 in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (from scikit-learn) (1.11.3)
Requirement already satisfied: threadpoolctl>=2.0.0 in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (from scikit-learn) (3.2.0)
Requirement already satisfied: Werkzeug>=3.0.0 in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (from flask) (3.0.1)
Requirement already satisfied: Jinja2>=3.1.2 in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (from flask) (3.1.2)
Requirement already satisfied: itsdangerous>=2.1.2 in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (from flask) (2.1.2)
Requirement already satisfied: click>=8.1.3 in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (from flask) (8.1.7)
Requirement already satisfied: blinker>=1.6.2 in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (from flask) (1.7.0)
Requirement already satisfied: colorama in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (from click>=8.1.3->flask) (0.4.6)
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (from Jinja2>=3.1.2->flask) (2.1.2)
Requirement already satisfied: six>=1.5 in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (from python-dateutil>=2.8.1->pandas) (1.16.0)
```

Running Model Training Python file

```
PS C:\Users\apurw\OneDrive\Desktop> python Model.py
```

Running Flask file

```
PS C:\Users\apurw\OneDrive\Desktop> python app.py
 * 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
 * Debugger is active!
 * Debugger PIN: 108-902-600
 * Detected change in 'C:\\Users\\apurw\\OneDrive\\Desktop\\app.py', reloading
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 108-902-600
```