Project Setup and Execution Guide

■ Step 1: Download and Open the Project

1. Download all files within this folder, ensuring each file keeps its original format.
2. Open the folder inside Visual Studio Code (VS Code).

■ Step 2: Set Up Python Virtual Environment

Run the following commands in your terminal (Linux/Mac):

```
python -m venv venv
source venv/bin/activate
```

For Windows (PowerShell):

```
python -m venv venv
.\venv\Scripts\activate
```

■ Step 3: Install Dependencies

Inside the activated virtual environment, install all required Python packages:

```
pip install -r requirements.txt
```

■ Step 4: Run the Notebooks

1. Open and run **Mahe_Normalization.ipynb**
 • This notebook normalizes the dataset **Mahe-Challenge-Copy - ChallengeCopy.csv**.
 • Execute all cells to complete preprocessing.

2. Open and run **Spread_Anyl.ipynb**
 • This notebook generates the output Excel file **TradingMasterData.xlsx**.
 • Execute all cells to produce the final result.

■ Final Output

- Normalized dataset (from Mahe_Normalization.ipynb)
- Final Excel file: **TradingMasterData.xlsx** (from Spread_Anyl.ipynb)

■ Notes

- Ensure you are running the notebooks inside the activated virtual environment.
- If using VS Code, it's recommended to install the Python and Jupyter extensions for smooth execution.