**One-for-All Framework Usage for Long-term Forecasting**

**Usage Details:**

1. All datasets (ETTh1, ETTh2, ETTm1, ETTm2, Traffic, and Weather) were processed on a single A100 GPU, utilizing 100% of the data for four prediction lengths: 96, 192, 336, and 720.
2. You can obtain all the benchmarks from:

<https://github.com/thuml/Time-Series-Library>

1. To train and evaluate the model, use the experimental scripts provided for each dataset and rank (2 to 1024) in the ./scripts folder. To reproduce the ETTh1 results, navigate to ./scripts/ETTh1/GPT2\_rsLoRA\_rank2 and run:

python3 GPT2\_rsLoRA.py

Ensure the correct paths for the main.py file and dataset folders for an error-free run. The trained models are automatically saved in the ./checkpoints folder, and the visualization results are saved in the ./test\_results folder. Follow similar steps for other ranks and datasets.

A screenshot of a computer

Description automatically generated