**One-in-All Framework Usage for Anomaly Detection**

**Usage Details:**

1. All datasets (MSL, PSM, SMAP, SWAT, and SMD) were processed on a single A100 GPU, utilizing 100% of the data.
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 MSL results, navigate to ./scripts/MSL/GPT2\_rsLoRA\_rank2 and run:

python3 GPT2\_rsLoRA.py

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

A screenshot of a computer

Description automatically generated

**Acknowledgement:**

We appreciate the following GitHub repositories for their codebase and datasets:

<https://github.com/DAMO-DI-ML/NeurIPS2023-One-Fits-All>

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

<https://github.com/rakshitha123/TSForecasting>