孙奥 SunAo

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EDUCATION

Shanxi University Feb 2019 - Jun 2022

Data science and finance Diploma Chuming college

Taiyuan

GPA: 3.37

RESEARCH EXPERIENCE

BMTrain May 2022 - Aug 2022

Main Contributor to Pipeline parallelism and ZeRO-2

Beijing

BMTrain is an efficient large model training toolkit that can be used to train large models with tens of billions of parameters. I am one of main contributors of this project and the author of pipeline parallelism and ZeRO-2 part.

ModelCenter

Main Contributor to Sparse Attention

ModelCenter implements pre-trained language models (PLMs) based on the backend OpenBMB/BMTrain. I contributed to parts of main models like Vit and Longformer.

ASC 2021

Accerlate Training NLP model

I was responsible for writing code for model quantification and multi-node and multi-GPU distributed training optimization.In the process ,I learned deploy training tasks in large clusters more efficiently.

ASC 2022

Accerlate Traing NLP model

The task is to train a GPT-2 model with 4.7B parameter as fast as we can.I tried Sparse-attention, 8bit optimizer, PipeDream1f1b Pipeline schedule.And I achieve 170TFlops on the clutser with 4 A100 GPU with no nvlink or nvswitch.I enter the final with the score.

LEADERSHIP EXPERIENCE

Scientific research training

Sep 2019 - Aug 2022

Leader Taiyuan

As the leader of the undergraduate research team, I was responsible for organizing the seminar and lead our members to do research better.

MISCELLANEOUS

• Skills: Pytorch, Linux, Git, C++, Python, Pandas, Scarpy

• Certifications: CET-6 521 CET-4 548

· Languages: English, Chinese

· Interests: Music , Sports , Movies and Codes