• Summary of the report.

In this report, the authors conduct an empirical study and investigation on MAML. They reproduce MAML on Omniglot and MiniImagenet image recognition tasks, adapt MAML on cifar-10 dataset and improve MAML with some practical strategies.

• Describe the strengths of the report.

They conduct ablation & hyper-parameter study on image classification tasks. And apply Multi-Step Loss Optimization (MSL), layer-wise learning rate (LSLR) and batch normalization statistic trick (BNRS) methods to improve MAML.

• Describe the weaknesses of the report.

Maybe the report should focus on one dataset like cifar-10 and make the improvement. The reproduction on Omniglot and MiniImagenet dataset is not needed.

• Evaluation on Clarity and quality of writing (1-5): 4

In part 2 proposal, spelling error “image”

In Exp11, dataset error in “LSLR dataset”

• Evaluation on Technical Quality (1-5): 4

The result of "MAML+All" improves not much compared to the result of “MAML+BNRS+LSLR” on Omniglot dataset.

The three strategies are not used to improve MAML in Cifar100 dataset.

• Overall rating: 4

• Confidence on your assessment: 2