Final Project Draft

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***Abstract—***Sample Max 5 pages excluding references and appendix

# Introduction

A clear, high-level description of what the original paper is about and what is the contribution of it.

# Scope of Reproducibility

List all hypotheses from the paper you will test and corresponding experiments you will run

# Methodology

## Model Descriptions

Model description

– Model architecture: layer number/size/type, activation function, etc

– Training objectives: loss function, optimizer, weight of each loss term, etc

– Others: whether the model is pretrained, Monte Carlo simulation for uncertainty analysis, etc

## Data Descriptions

– Source of the data: where the data is collected from

provide the link if possible; if data is synthetic or

self-generated, explain how.

– Statistics: dataset size, cross validation split, label

distribution, etc

– How do you use the data: change the class labels,

split the dataset to train/valid/test, refining the

dataset

## Computational Implementation

– Report the software and hardware implementation (What is your basic coding framework, PyTorch, Tensorflow, etc? What kind of CPU or GPU do you use?)

– Report hyperparameters including learning rate, dropout rate, number of iterations, training time, etc.

## Code

– Which parts are developed by yourself? Which

parts are referred from the codebase in original

paper or other resources?

– Provided link to your repo (Github, Gitlab,

Bitbucket, etc). Your repo should include detailed documents (README file) telling readers:

∗ Dependencies (which packages are required)

∗ Download instruction of data and pretrained

model (if applicable)

∗ Functionality of scripts: preprocessing, training,

evaluation, etc.

∗ Instruction to run the code

# Results

Report results for all experiments that you run:

– specific numbers (accuracy, AUC, RMSE, etc)

– figures (loss shrinkage, outputs from GAN,

annotation or label of sample pictures, etc) Comparison with the hypothesis and results from the original paper.

# Discussion

The discussion

Make assessment that the paper is reproducible or not. • Explain why it is not reproducible if your results are

kind negative.

• Describe “What was easy” and “What was difficult”

during the reproduction.

• Make suggestions to the author or other reproducers

on how to improve the reproducibility.

# References

1. Joyner, D. A., Ashby, W., Irish, L., Lam, Y., Langston, J., Lupiani, I., Lustig, M., Pettoruto, P., Sheahen, D., Smiley, A., Bruckman, A., & Goel, A. (2016). Graders as Meta-Reviewers: Simultaneously Scaling and Improving Expert Evaluation for Large Online Classrooms. In *Proceedings of the Third Annual ACM Conference on Learning at Scale*. Edinburgh, Scotland.

# Appendices

You may optionally move certain information to appendices at the end of your paper