Title: Team Name + Challenge Name

Choose your own subtitle

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ABSTRACT

Summarize your approach and the obtained solution.

1 Problem Statement

**About the report in general:** The report should use the ACM SigConf template, which is available as Word template as well as Latex template available at the URL <https://www.acm.org/publications/proceedings-template>.

The report should have a maximum of 4 pages (excluding references) following the coarse-grained structure outlined here. You may add additional sub-structures as needed.

The report will be judged by the scientific committee of the AI-CUP and will make up 20% of the achievable score. So, it can make the difference between winning the challenge or not. The report serves as a qualitative description of your chosen solution including the underlying rational as well as to reproduce and validate the achieved results. Furthermore, we want to see how you embed your solution in the field / application case

**About section 1:**

Motivate the use case and problem setting of the challenge from your perspective.

Describe the problem statement from your perspective clearly and short and elaborate on your assumptions / premises for the chosen solution. Embed your solution into existing works and highlight the most important results obtained.

Describe the structure of the report briefly.

2 Data Preprocessing

Describe your preprocessing steps and potential additional data that has been used (if allowed). You can also provide a statistical analysis of the data and conclusions that have been drawn for the choice of method. Describe the approach algorithmically and describe the tools used. Highlight interesting insights, assumptions or hypothesis you considered and how they influenced the developed solution.

Include and explain any external data used.

2 Model Development

Describe your choice of model(s), the underlying rational for these choices and how model development has been conducted. Explain your hyperparameter optimization strategy and how the results can be reproduced by a third party. This includes a description of the tools / languages used and potential supplementary materials to the submission (e.g. Notebooks). Please note that it is important that your methodology can be reproduced by the organizers if necessary, in order to validate the correctness of the approach.

3 Results

Describe the achieved results and conducted experiments beyond the single submitted score. Compare different hyperparameter settings and provide a concise overview on the results that influenced your model development / implementation decisions. Include information on different dataset distributions for training/testing / tuning (cross-validation, random splitting etc.)

4 Future Work

Describe the broader scope of the obtained results and point towards future developments in AI with regards to the application domain of the challenge. What data would be of relevance in the application domain and which methodological developments will be important in the future from your point of view.

REFERENCES

[1] Patricia S. Abril and Robert Plant, 2007. The patent holder's dilemma: Buy, sell, or troll? *Commun. ACM* 50, 1 (Jan, 2007), 36-44. DOI: <https://doi.org/>10.1145/1188913.1188915.

[2] Sten Andler. 1979. Predicate path expressions. In *Proceedings of the 6th. ACM SIGACT-SIGPLAN Symposium on Principles of Programming Languages (POPL '79)*. ACM Press, New York, NY, 226-236. DOI:https://doi.org/10.1145/567752.567774

 [3] Ian Editor (Ed.). 2007. *The title of book one* (1st. ed.). The name of the series one, Vol. 9. University of Chicago Press, Chicago. DOI:https://doi.org/10.1007/3-540-09237-4.

[4] David Kosiur. 2001. *Understanding Policy-Based Networking* (2nd. ed.). Wiley, New York, NY..