

Your Project Title Here

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Introduction

The *Introduction* section (1 paragraph) describes the background and motivation behind your work. This section should describe the problem that your project is addressing. Why is this an important problem to tackle? Consider using stories, statistics, and facts to really motivate this work. What are the potential real-world impact, if your project is successful? (1 paragraph)

your idea and give a prediction of how you envision the idea would help.

If you plan on proposing and evaluating an algorithm theoretically, then describe a problem and describe the algorithm you plan on evaluating. Describe the kinds of properties that you want to achieve and approaches you might try to approach it.

Related Work

The *Related Work* section (1 paragraph) should cite—like this: (Russell and Norvig 2016; Gao, Wright, and Leyton-Brown 2016; Gao et al. 2014)—approximately 10-12 papers that you plan to read and summarize. Explain why you think these papers are relevant to the problem at hand.

Method

The *Method* section (1 paragraph) describes how you plan to tackle this problem.

If you plan on writing a survey paper, then cite all the papers that you want to summarize. Summarize any results that you have already read about.

If you are planning on implementing algorithms to solve specific problem instances, then you need to describe the problem instances and the algorithm you plan on implementing. First, describe the specific problem instances in 1 paragraph. If you are using a data set somewhere, describe the size of the dataset and why it is appropriate for your program. Second, describe the two algorithms that you are planning on implementing. (1-2 paragraphs) Why does it make sense to use these two algorithms to solve this problem? What do prior work say about the performance of these algorithms? How do you plan on comparing the performance of these algorithms?

If you are planning on improving an existing algorithm for a particular problem, then you need to describe the problem and the algorithm you plan on improving. What challenges offered by the problem cannot be fully addressed by existing algorithms? Why do you think your idea could improve the performance of the algorithm on this problem? Describe

References

Gao, X. A.; Mao, A.; Chen, Y.; and Adams, R. P. 2014. Trick or treat: putting peer prediction to the test. In *Proceedings of the fifteenth ACM conference on Economics and computation*, 507–524. ACM.

Gao, A.; Wright, J. R.; and Leyton-Brown, K. 2016. Incentivizing evaluation via limited access to ground truth: Peer-prediction makes things worse. *arXiv preprint arXiv:1606.07042*.

Russell, S. J., and Norvig, P. 2016. *Artificial intelligence: a modern approach*. Malaysia; Pearson Education Limited,.