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# **Your Project Title (e.g. A Study on Accelerated Gradient Methods)**

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## **1 Introduction**

Please provide a clear but brief overview of the selected paper. You may want to discuss the following aspects:

- The main research challenges tackled by the paper
- The high-level technical insights into the problem of interest
- The main contributions of the paper (compared to the prior works)
- Your personal perspective on the proposed method

## **2 Problem Formulation**

Please present the formulation in this section. You may want to cover the following aspects:

- Your notations (e.g. objective functions and constraints)
- The optimization problem of interest
- The technical assumptions
- Preliminaries

## **3 Algorithms**

Please present the main algorithms in this section. You could also provide the pseudo code if that would help enhance readability. You may also want to provide the intuition behind the key steps of the algorithms.

## **4 Theoretical Analysis**

Please present the theoretical analysis in this section. Moreover, please formally state the major theoretical results using theorem/proposition/corollary/lemma environments. Also, please clearly highlight the errors that you found as well as your new proofs or extensions (if any).

## **5 Experiments**

Please present your experimental results in this section (if any). If you'd like present some figures/tables, please also provide some interesting insights provided by the experimental results.

## **6 Conclusion**

Please provide succinct concluding remarks for your report. You may discuss the following aspects:

- The potential future research directions
- Any technical limitations
- Any latest results on the problem of interest

## **References**