Pricing transportation routes for balancing crowd: Kolkata case study

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ABSTRACT

TODO: When opening new urban transportation along an existing network, it has been observed that existing demand exceeds the available capacity for the new route. To overcome this problem commuters are usually charged a price for using the new routes. The problem then is how to dynamically adjust the pricing of the routes based on capacity, demand forecasts and commuter preferences in order to get broad adoption while maintaining efficient load distribution.

KEYWORDS

Legends, Myths, Folktales

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1 INTRODUCTION

TODO: Brief introduction to the problem statement. Section wise summary of the report.

Analyse game theoretic tradeoffs when new routes are introduced in the network. Explore existing approaches for similar problems. Implement a dynamic algorithm which determines and sets the price for every transportation route optimizing for social welfare and avoiding congestion upon route additions.

2 RELATED WORK

TODO: In this section, we discuss some of the existing works related to pricing transportation routes and managing congestion in urban transportation networks.

3 EXPERIMENTS AND RESULTS

TODO: Describe the experiments conducted, datasets used, and the results obtained from implementing the dynamic pricing algorithm.

4 CONCLUSION

5 CITATIONS AND REFERENCES

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