MKSE312 Final Project

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1 Introduction

In this report, we analyze the Facebook New Orleans dataset using different community detection techniques: modularity maximization using KL algorithm, spectral bipartition, and the Louvain-Twitter algorithm.

We extracted 5 disjoint subgraphs of 2,500 nodes from the dataset to make the computation more feasible.

2 Modularity maximization using KL algorithm

3 Spectral bipartition

4 Louvain-Twitter algorithm