Dense Subgraph Computation Using Network Flow

This project implements Algorithm-1 and Algorithm-4 from the

Installation

To run this project, Compile the code:

g++ -std=c++11 -o dense_subgraph densest_subgraph.cpp

Usage

To run the program, ensure that the dataset files are in the same directory as the executable. Then, simply execute:

./dense_subgraph

Datasets

The following datasets are used in this project:

- AST33.txt
- netscience.txt
- Ca-HepTh.txt

These files should be placed in the same directory as the executable.

Team Members and Contributions

- **2022A7PS0132H Sahiti Kasina**: Exact Algorithm
- **2022A7PS0059H Valavala Charan Teja**: Exact Algorithm
- **2022A7PS1323H Saksham Daga**: CoreExact Algorithm
- **2022A7PS1796H Aryan Saini**: CoreExact Algorithm
- **2022A7PS0227H Kunal Maheshwari**: Analysis and WebPage

Project Webpage

Our project webpage: https://charan119.github.io/
Our Repository: https://github.com/charan119/Daa-Project