

# Graph Data Mining Project 1

## README

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### TEAM 7 - PAPER 1:

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a. Software that needs to be installed (if any) with URL's to download and instructions to install them.  
→The program has been tested on a Windows machine as well as a Linux machine running Python 2.7. It can be downloaded and installed from <http://www.python.org/download/>

To successfully run the program, the following Python libraries need to be installed:

- 1.) collections
- 2.) operator
- 3.) copy
- 4.) pickle
- 5.) sys
- 6.) time
- 7.) decimal

b. Environment variable settings (if any) and OS it should/could run on.

OS: Windows, Linux

c. Instructions on how to run the program.

The program can be run by using the following command:

```
python CommunityDetection.py
```

The program will ask the user for the file name of the input graph. Please specify the complete file path of the input graph.

d. Instructions on how to interpret the results.

The detected communities will be generated and stored in the format as specified in the project description in a file "output.txt" in the current directory. Also, two files called laoutput.pkl and page\_rank\_vector.pkl are generated which contain data from intermediate steps.

e. Sample input and output files.

Sample files are included in the zip along with the README.