**DATA MINING ENDSEM**

**ANOMALY DETECTION**

**Requirements:**

* Python version 3.8 or 3.9
* **Python Libraries needed:**
* Pandas
* Numpy
* scikit-learn

**Submission Structure:**

1. anomaly-s145.dat : Dataset provided by professor.
2. answer-s145.dat : output file containing mask signifying whether a data point is anomaly or not .
3. anomaly\_endsem.py : Python script that takes input file and outputs ‘answer-s145.dat’ containing 100x100 mask signifying whether a data point is anomaly or not.
4. requirements\_anomaly.txt: Contains all the python library names required to successfully run given python script.
5. anomaly-s145.sh: Shell script file to execute python script.
6. Makefile: Installs required python libraries if not already installed and calls anomaly-s145.sh
7. Readme.pdf : Contains details about assignment and steps to run the assignment.

**Steps To Execute Assignment:**

1. Move into the folder where ‘’Makefile’ is present and open Terminal/Command Prompt etc.
2. Type ‘make setup’ and press enter.
3. Type ‘make run ’ and press enter.
4. ‘answer-s145.dat’ will be generated and stored in the folder.