Peer Code Review Template

This template can be used to complete your 5 Peer Code Reviews. If you do not use this template, you must make sure to include all the sections.

# Your name: Sanjay

# Date: 12 July 2020

# Peer Review Number (1-6): 3

# Peer’s Name: Pritam Shrestha

# Assignment Reviewing: Denclue Algorithm

# Tool used for Review: Jupyter Notebook, Github

# Code

[https://github.com/pritamshrestha/DSC\_550-data\_mining-/blob/master/Week\_4/density\_based\_clustering\_denclue.py](https://github.com/pritamshrestha/DSC_550-data_mining-/blob/master/week_2(python_file)/Non_derivable_itemsets.py)

# Review

*Indicate the extent to which you agree with the statement on the left, using a scale of 1-4 (1=strongly disagree; 2=disagree; 3=agree; 4=strongly agree). Total the numbers in each column.*

|  |  |  |
| --- | --- | --- |
| **Evaluation Criteria** | **Score** | **Comments** |
| Code Style/Consistency *Does the developer follow the same style as they write their code? Is it easy to read?* | 3 | The coding style is consistent throughout the program. Variable naming can be improved as some variables are small case and some contains upper case letters. The program has some errors, like the following code will throw exception, as data frame iris\_df is not defined.  *if* \_\_name\_\_ == '\_\_main\_\_':  df = pd.read\_csv('iris.txt', header=None)  print(iris\_df.head()) |
| Documentation *Does the developer properly document the steps and indicate their reasoning for decisions?* | 3 | The documentation style can be improved. For example, class DENCLUE is having very detailed documentation, however methods like \_step doesn’t have any documentation. It’s helpful to add parameters and return in documentation. Inline comments are used appropriately. |
| Error Handling *Does the code handle errors properly? Where should this be better?* | 3.5 | The errors handling is well executed. The exceptions are handled in main function and user-friendly message is printed on exception. The “finally” block in main method is not necessary as it’s doing nothing. The message printed in finally block is not useful to end-user. |
| Areas of Improvement *What are two suggestions you can make to the developer to improve their code or development process?* | 3 | 1. The code is too similar to the referred code. [*https://github.com/mgarrett57/DENCLUE/blob/master/denclue.py*](https://github.com/mgarrett57/DENCLUE/blob/master/denclue.py)*.*  2. It will be helpful while reading the program, if we follow/document the algorithm steps.  3. The errors can be removed by using good IDE like PyCharm or VScode.  4. The parameter “metric’ is not used anywhere in the class. We can remove it. |
| Items taking Away *What are two items you are taking away that you can start to incorporate into your own development?* | 4 | The first thing I like about the code is error handling and user-friendly messages on exceptions. I will try to apply same error handling in my code. The other thing I liked is the detailed documentation on DENCLUE class. This documentation contains all the required things that will help reader to understand this class. I will try to use this documentation style wherever possible. |
| TOTALS | 16.5/20 |  |