CENG 796 - Peer-review form

Reviewed project ID: Group 08

Reviewed project's title (title of the paper): END-TO-END DEEP STRUCTURE GENERATIVE MODELFOR PROTEIN DESIGN

Reviewer name(s): Ahmet Kağan Kaya

Instructions:
- Answer = *Yes*, *No* or *Partial*.
- You may expand sections as necessary.
- For most questions, you do not need to add comments, unless the instructions tell you otherwise.
- "Notebook" refers to "Jupyter Notebook" file that is expected to be named as main.ipynb

Question	Answer	Comments
Contains a jupyter notebook file	Yes	
Notebook is located at <project_root>/main.ipynb	Yes	
Notebook's first section contains paper information (paper title, paper authors, and project group members' name & contact information) Some good examples: see group03, group10, group11 (and a couple of other groups).	Yes	
Notebook contains a section for hyper-parameters of the model.	Partial	There is no section for hyper parameters, Most of them are added to functions call. I think it is hard to explore all of them at once.
Notebook contains a section for training & saving the model.	No	There is no code block that saves best model
Notebook contains a section (or a few sections) for loading a pre-trained model & computing qualitative samples/outputs.	No	There is no code block that loads the best model. Results are not printed.
Notebook contains reproduced plots and/or tables, as declared.	Partial	Some figures that allows us to observe dataset information were added but there is no results related figures.
Notebook contains pre-computed outputs.	No	

Data is included and/or a proper download script is provided.	Yes	
Notebook contains a section describing the difficulties encountered.	Yes	Dimension complexity related issues were explained but since dataset is too small, it seems a little bit confusing. More explanation is needed.
The paper has achieved its goals and/or explained what is missing.	Partial	It is said that will be run in version 2
The notebook contains a section that reproduces the figure(s) and table(s) declared in the goals.	No	
The notebook also reports the original values of the targeted quantitative results, for comparison.	No	
MIT License is included.	No	I am also not sure where license should be located. I could not see any license information.
As the reviewer(s), you have read the paper & understood it.	Yes	
Implementation of the model seems correct.	Yes	Model implementation seems correct but only little part of it is implemented. Most of the part are suspended to version 2.
Notebook looks professional (in terms of notation, readability, etc.)	Partial	Notebook seems professional but dataset download part and dataset visualization part seems crowded because of the warnings of the python. Also some parts of the implementation written in English but results written in Turkish.
Source code looks professional (in terms of coding style, comments, etc.)	Yes	Implementation seems professional. Spacing were done properly.

Additional comments:

Algorithm overview was not explained clearly and in detail. Therefore, it is hard to understand algorithm without checking actual paper. Because of the python warnings, outputs parts seem a little bit messy. I think that most of the implementation was not done in v1 and therefore, it is hard to decide whether implementation is correct. There is no results section, save and load model section and hyperparameter section.