CS 636 Final Project: Can you help make sense of the Universe?

Overview:

Due on December 10, 2018

Please refer to

https://www.kaggle.com/c/PLAsTiCC-2018

for project description. The first submission deadline to Kaggle is **December 3, 2018** for our project. The contest timeline might change at the discretion of competition organizers, please stay tuned for any updates (https://www.kaggle.com/c/PLAsTiCC-2018#Timeline).

Data:

Please refer to https://www.kaggle.com/c/PLAsTiCC-2018/data for data description.

Requirements:

The goal is to predict classify astronomical time series data.

1. A sample submission file of the correct format is also provided for your reference.

```
object_id,class_6,class_15,class_16,class_42,class_52,class_53,class_62,class_6
4,class_65,class_67,class_88,class_90,class_92,class_95,class_99
13,0,0.1,0,0.1,0,0.3,0,0,0,0,0,0.5,0,0,0
14,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0
17,0.75,0.23,0,0,0.01,0,0,0,0,0.01,0,0,0,0,0
etc.
```

You are expected to build up a predictive model for this task.

2. Please use training data to feed your models and hold out test data for evaluation purpose.
3. If you get models ready for prediction, you are encouraged to submit your results to Kaggle for evaluation as early as possible. Multiple entries are allowed (only best performance is provided by Kaggle), so you only need to give the screenshot of performance for your final submission (from leaderboard). For example:

#	△1w	Team Name	Kernel	Team Members	Score	Entries	Last
1	new	**meiguoren**			0.14208	1	4h

We base grading on the performance evaluated by Kaggle. Please refer to https://www.kaggle.com/c/PLAsTiCC-2018#evaluation for well-defined weighted multi-class logarithmic loss logarithmic loss. **NOTE**: your project will be marked **FAIL** if no performance evaluation from Kaggle is provided.

4. You are allowed to look for teammates by yourselves to work together on final project. The number of group members is limited to be **1 ~ 6**.
5. **Please put together your source code, testing results and a project report (including the screenshot) as the final submission.**
    a. The source codes.
    b. A '.csv' file for prediction results.
    c. A project report including the basic procedure for data preprocessing and modeling and a statement describing the contribution of this project for each group member.

d. One submission per group with your group ID and all group members, and the corresponding hardcopy version.