The solutions are evaluated on two criteria: predicted future Index values and allocated energy from a newly discovered star

1) Index predictions are evaluated using RMSE metric

2) Energy allocation is also evaluated using RMSE metric and has a set of known factors that need to be taken into account.

Every galaxy has a certain limited potential for improvement in the index described by the following function:

- Potential for increase in the Index = -np.log(Index+0.01)+3

Likely index increase dependent on potential for improvement and on extra energy availability is described by the following function:

- Likely increase in the Index = extra energy * Potential for increase in the Index **2 / 1000

There are also several constraints:

- in total there are 50000 zillion DSML available for allocation
- no galaxy should be allocated more than 100 zillion DSML or less than 0 zillion DSML
- galaxies with low existence expectancy index below 0.7 should be allocated at least 10% of the total energy available

3) Leaderboard is based on a combined scaled metric:

- 80% prediction task RMSE + 20% optimization task RMSE * lambda

where lambda is a normalizing factor

4) Leaderboard is 80% public and 20% private

5) The submission should be in the following format:

Variable	Description
Index	Unique index from the test dataset in the ascending order
pred	Prediction for the index of interest
opt_pred	Optimal energy allocation