Problem Statement for Data Analytics

Assessing rice yield-

Introduction

India is one of the world largest producer of rice accounting for 20% of all world rice production. Rice is India's pre-eminent crop, and is the staple food of the people of the eastern and southern parts of the country. Moreover, this country has the largest area under rice cultivation, as it is one of the principal food crops. It is in fact the dominant crop of the country. India is one of the leading producers of this crop. Rice is the basic food crop and being a tropical plant, it flourishes comfortably in hot and humid climate

Given the data of rice yield collected from different states of India. Different factors involving yield of rice is anonymous in given data named as X1, X2, X3, X4 along with some known factors such as crop area and state in which it is grown.

Problem Statement

Contestant are required to predict the yield of a rice. The training dataset contains the yield of 1451 different location. You are required to train your model in this dataset and predict the yield on test dataset which contains 480 locations.

Your model performance will be evaluated on the basis of your prediction of the yield for test data which contains similar data points as train except for their yield. Your submission needs to be in format as shown in "submission.prakriti.csv"

We at our end have actual yield for test data set against which your prediction will be evaluated. Submission will be scored on root mean square error (RMSE). RMSE is very common and is suitable general-purpose error metric.

Rules

1. Each team can contain a maximum of Four participants. Students from different colleges can form a single team.
2. The event will be conducted in two phases:
   - Online submission of abstract
   - Final presentation by shortlisted teams at IIT Kharagpur
3. For the first round each team has to prepare an abstract (not more than 500 words) of the solution along with their code based on the problem statement.
4. Shortlisted teams from abstract submission round have to present their ideas in the form of
5. PowerPoint presentation during Prakriti 2018 at IIT Kharagpur.
6. All files must be sent in one folder in zip format to submission@prkrt.in with data analytics_18 as subject on or before 10th March 2018 11:59 pm.
7. The email body must contain the names of the team members along with their email-id and college names.
8. The results of first round shall be given to the above listed e-mails and mobile numbers.

Contact

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