Janatahack: Healthcare Analytics II

Online 28-08-2020 11:59 PM to 06-09-2020 11:59 PM

18788
Registered

69
Number of Teams

250 AV Points
Prizes

ENDS IN

6 DAYS **13** HOURS **54** MIN

Registered

Recent Covid-19 Pandemic has raised alarms over one of the most overlooked area to focus: Healthcare Management. While healthcare management has various use cases for using data science, patient length of stay is one critical parameter to observe and predict if one wants to improve the efficiency of the healthcare management in a hospital.

This parameter helps hospitals to identify patients of high LOS risk (patients who will stay longer) at the time of admission. Once identified, patients with high LOS risk can have their treatment plan optimized to miminize LOS and lower the chance of staff/visitor infection. Also, prior knowledge of LOS can aid in logistics such as room and bed allocation planning.

Suppose you have been hired as Data Scientist of HealthMan – a not for profit organization dedicated to manage the functioning of Hospitals in a professional and optimal manner.
The task is to accurately predict the Length of Stay for each patient on case by case basis so that the Hospitals can use this information for optimal resource allocation and better functioning. The length of stay is divided into 11 different classes ranging from 0-10 days to more than 100 days.

Data Description

Train.zip contains 1 csv alongside the data dictionary that contains definitions for each variable

train.csv – File containing features related to patient, hospital and Length of stay on case basis

train_data_dict.csv – File containing the information of the features in train file

Test Set

test.csv – File containing features related to patient, hospital. Need to predict the Length of stay for each case_id

Sample Submission:

case_id: Unique id for each case

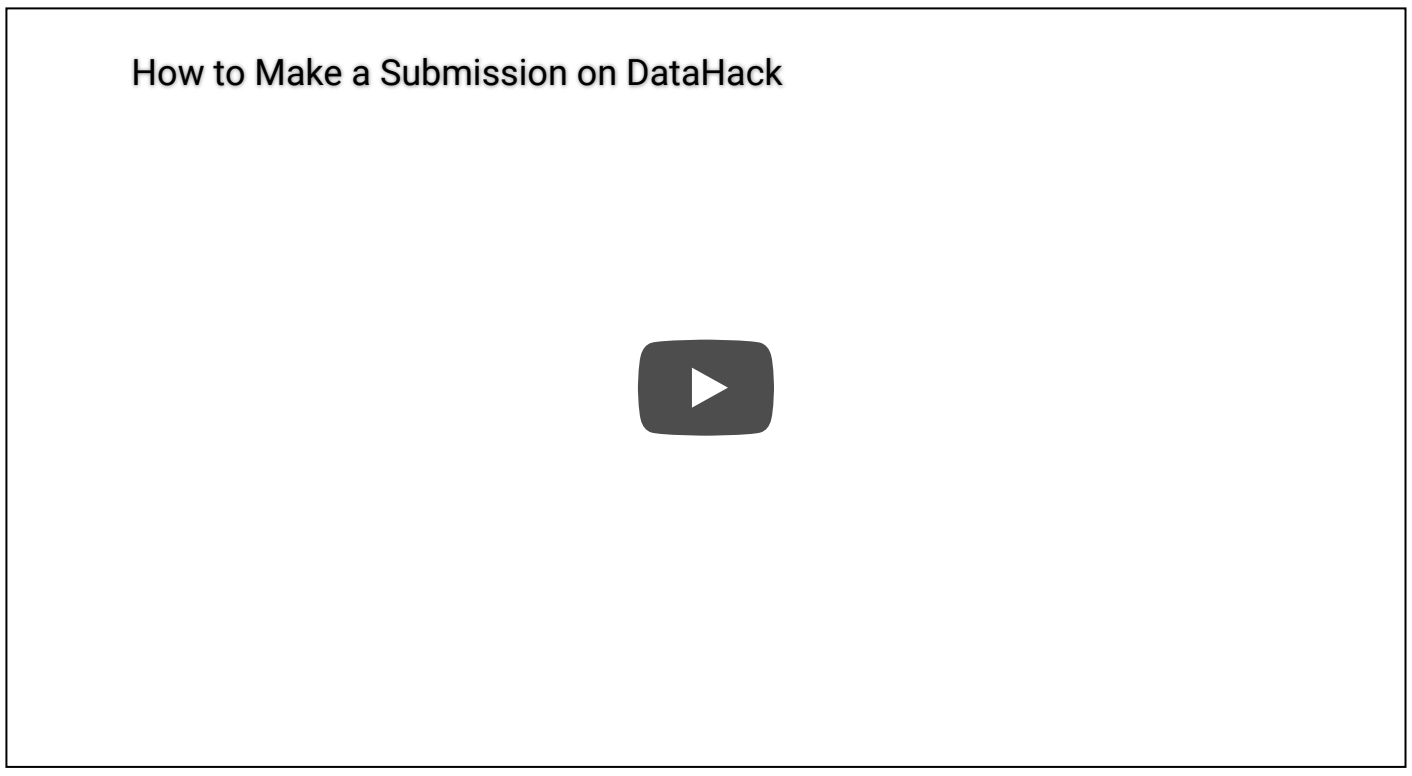
Stay: Length of stay for the patient w.r.t each case id in test data

will be taken as the final submission
3. Use of external datasets is not allowed and will lead to disqualification from the leaderboard
4. Entries submitted after the contest is closed, will not be considered for leaderboard
5. The code file pertaining to your final submission is mandatory while setting final submission for AV Points
6. Throughout the hackathon, you are expected to respect fellow hackers and act with high integrity.

Data

Test File | Train File | Sample Submissions

How to Make a Submission?



Evaluation Metric

The evaluation metric for this hackathon is 100*Accuracy Score.

Public and Private split

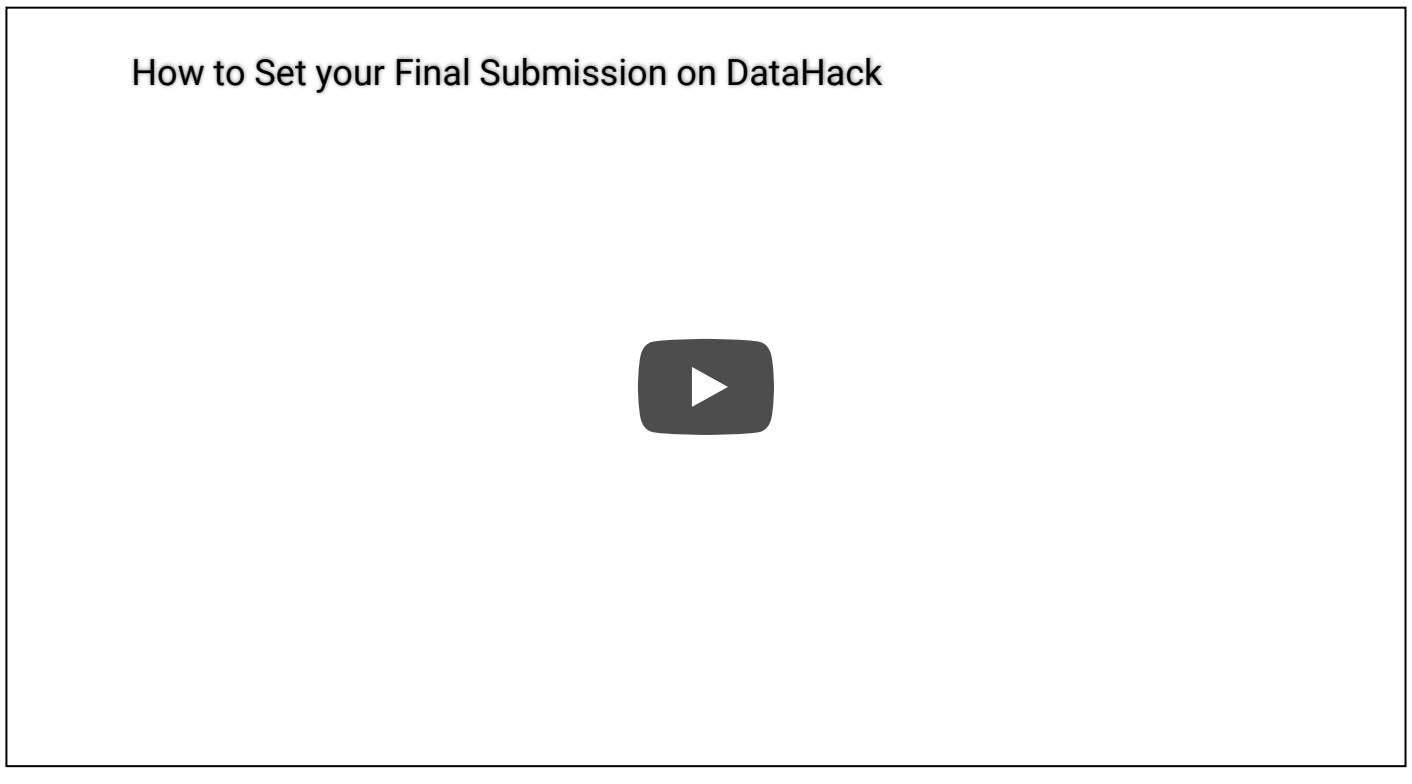
The public leaderboard is based on 40% of test data, while final rank would be decided on remaining 60% of test data (which is private leaderboard)

Guidelines for Final Submission

Please ensure that your final submission includes the following:

1. Solution file containing the predicted Length of stay every case_id in the test set
2. Code file for reproducing the submission, note that it is mandatory to submit your code for a valid final submission

How to Set Final Submission?



Hackathon Rules

1. *The final standings would be based on private leaderboard score*
2. Setting the final submission is recommended. Without a final submission, the submission corresponding to best public score