

Hospital Readmissions

Submission Deadline - April 27

A healthcare organization believes they suffer from over \$30 million in losses annually due to the readmission of patients who are discharged from the hospital too soon. Keeping all patients in the hospital longer, regardless of their condition, is a costly measure and inconvenient to patients.

You are hired by the hospital to use your skills in data analytics to develop a model that predicts the readmission risk. By doing this, doctors can use your predictive analytics to decide whether to discharge a patient without delay. The hospital shares a dataset of 10,000 patients with you in file named 10Kpatients.csv.

To help doctors understand and trust your approach, you are invited to create a report and a PowerPoint presentation that explains the techniques you used, the accuracy, and the confidence of your model. So, feel free to describe your techniques such as: the preprocessing procedures, consistency checks, draw scatter plots, show histograms, discuss correlations, outliers detected, machine learning models used / attempted, and interpret results.

If you have questions, please post them on the discussion forum.