Predict No Shows for Medical Appointments

Resource planning is crucial for any business; it is even more so for operations struggling with resource crunch. Government sponsored medical services is a prime example of such an operation. In almost all developing countries, there is severe shortage of medical personnel and at the same time, not ideal living conditions for big chunk of the population further exacerbates need of medical attention. Governments have tried floating subsidised access to poor families to increase access to healthcare. One big problem which stops better utilisation of this facility is that people make appointments but do not show up without a notice. That time slot could have been given to a needier person if authorities were able to determine who is very likely to not show-up and follow-up appropriately. Your task here is to make use of historical records to build a model for predicting a No-Show for an appointment given appoint details, medical history and demographic details of the customer.

Data Files

Medical History = medical_history.csv

Demographic Details = demographic_details.csv

Train Dataset =train.csv

Test Dataset = test_share.csv

Formal Problem Statement Variable names are self-explanatory and there is no formal data dictionary provided by the client. Your task here is to build a predictive model for predicting No-shows given the appointment details. You need to build your model on the train dataset. Test dataset does not have a response column; you need to predict those values and submit it in a csv format.

target column = No-show

Advice : Make use of demographic and medical history data files to get a good model