Subject: Predciting Low Birth Weight Prediction with Random Forest in R
Posted by Muhammad Naeem on Thu, 22 Aug 2024 05:46:05 GMT

Hi everyone,

I'm working with PDHS(2017-2018) data from the Pakistan Demographic Health Survey and have a variable indicating low birth weight, which I've categorized as follows:

0: Normal weight (2500 grams or above)
1: Low birth weight (<2500 grams)
In my dataset, the proportions are:

Normal weight: 80%
Low birth weight: 20%
I am using a Random Forest classifier in R to predict low birth weight. However, the model is producing very few correct predictions for the low birth weight category (1).

Given this class imbalance, what strategies or adjustments can I make to improve the model's performance for the minority class? Any advice or suggestions would be greatly appreciated!

Thank you!

File Attachments
1) ml_pak.csv, downloaded 171 times