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Subject: Predicting Low Birth Weight Prediction with Random Forest in R  
Posted by [Muhammad Naeem](#) on Thu, 22 Aug 2024 05:46:05 GMT

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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!

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### File Attachments

1) [ml\\_pak.csv](#), downloaded 303 times

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