

Weightlifting Classification

Daryl Van Dyke

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Problem Statement

Apparently, some techies like to measure themselves doing things. This allows them to quantify what they were doing, and when they did it. These folks also want to know if they are good enough or not. The purpose of this analysis is to determine the efficacy of trying to classify their barbell lift form as Correct or Incorrect, based on observed data.

General Data Patterns and Data Preparation

The dataset consists of 158 different parameters, describing 6 subjects and the 5 different classes of accuracy of the weightlifting form. Of these, only 93 parameters contained useful data. The data were filtered to remove those columns.

```
cNames <- names(dTrain)
```

```
t1 <- apply(dTrain, 2, is.na)
```