Data Science Prediction Assignment

Human Activity Recognition

Human Activity Recognition - HAR - has been recognized as a key research area and is gaining attention by the computing research community, especially for the development of context-aware systems. There are many potential applications for HAR, like: elderly monitoring, life log systems for monitoring energy expenditure and for supporting weight-loss programs, and digital assistants for weight lifting exercises.

The goal of this assignment is for candidate predict the manner in which they performed the exercise and machine learning classification of accelerometers data on the belt, forearm, arm, and dumbbell of 6 participants. In training data “classe” is the outcome variable in the training set using predictor variables to predict 20 different test cases.

You can either use R or Python to perform the predictions. Please upload your writeup to GitHub, RPub, or other web sites which you will explain each step of the actions. The writeup will based on the following format:

1. Overview
2. Background
3. Data Exploration
4. Prediction Modeling
5. Model Application