**The questions:**

Like building a category model in the class, creating a regression model of mpg as target and others as features (from a built-in dataset of mtcars) using random forest algorithm with **caret** package, and writing the code.

**Requirements:**

1. The code should include data preparation and pre-process, feature selection and visualization, training and turning the model, as well as finally evaluating the performance of the model
2. Complete and submit it before April 5, 2024.