You have also received the file "*dataset.RData*" together with this document. The *.RData* file contains data on 10.000 patients that has been admitted to a certain Intensive Care Unit (ICU). It is your responsibility to create an R package to help to analyze this data.

The package should contain functions to:

- make the appropriate treatment to the dataset.
- produce some plots to understand the relationship between the variables and get some insights about what increases the chances of a patient to die in this ICU.
- make predictions about the probability of a patient to die in this ICU.
- produce a final report – in English! – using the other functions created to describe the results you got while analyzing data.

The package must be hosted as a public project on the GitHub repository. It is suggested that you use GitHub for keeping track of the changes to the source code you made. At the end of your deadline, you should send via e-mail the GitHub link for your package and the final report attached.

The variables in the dataset are described below.

UnitAdmissionId: unique identifier for each patient.

Age: age of patient (in years).

Gender: gender of patient ("F" for female and "M" for male).

UnitDischargeCode: "A" (alive) or "D" (dead) at the end of admission.

UnitLengthStay: number of days each patient has been in the ICU.

IsArterialHypertension: indicates if the patient has arterial hypertension.

IsDiabetesComplicated: indicates if the patient has diabetes.

Best of luck!