**Problem Statement**

For this task, you are given a set of longitudinal data (attached) of different lab measurements for patients diagnosed with chronic kidney disease (CKD). Furthermore, you are also given the information whether these patients progress in their CKD stage or not in the future. Using this dataset, you are required to come up with a solution to predict whether a patient will progress in CKD staging given the patient's past longitudinal information.

The following CSV files are provided:

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| No | File | Dictionary |
| 1 | T\_demo.csv | id: patient id  race: patient’s race  gender: patient’s gender  age: patient’s age at baseline |
| 2 | T\_creatinine.csv | id: patient id  value: patient’s serum creatinine value at the corresponding time (in mg/dl)  time: time of measurement (in days from baseline t=0) |
| 3 | T\_DBP.csv | id: patient id  value: patient’s diastolic blood pressure at the corresponding time (in mmHg)  time: time of measurement (in days from baseline t=0) |
| 4 | T\_SBP.csv | id: patient id  value: patient’s systolic blood pressure at the corresponding time (in mmHg)  time: time of measurement (in days from baseline t=0) |
| 5 | T\_HGB.csv | id: patient id  value: patient’s Hemoglobin level at the corresponding time (in g/dl)  time: time of measurement (in days from baseline t=0) |
| 6 | T\_glucose.csv | id: patient id  value: patient’s glucose level at the corresponding time (in mmol/l)  time: time of measurement (in days from baseline t=0) |
| 7 | T\_ldl.csv | id: patient id  value: patient’s low-density lipoprotein (LDL-c) level at the corresponding time (in mg/dl)  time: time of measurement (in days from baseline t=0) |
| 8 | T\_meds.csv | id: patient id  drug: the name of the drug being prescribed  daily\_dosage: the dosage of the drug being prescribed (in mg)  start\_day: the starting time of the prescription (in days from baseline t=0)  end\_day: the end of the prescription (in days from baseline t=0) |
| 9 | T\_stage.csv | id: patient id  Stage\_Progress: indicator of whether or not the patient progress in the CKD stage (True=progress) |