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:

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)