**DIABETES Dataset**

The problem scenario for this dataset is to predict whether patients have diabetes (1) or not (0) based on 11 features:

* year – the year the data was collected about the individual
* gender – the gender of the individual
* age – the age of the individual
* location – the state or region where the individual resides
* race – the race of the individual
  1. African
  2. Asian
  3. Caucasian
  4. Hispanic
  5. Other
* hypertension – if the individual has hypertension (1) or not (0)
* heart\_disease – if the individual has heart disease (1) or not (0)
* smoking\_history – the individual’s smoking status (never, current, former)
* bmi – Body Mass Index of the individual
* hbA1c\_level – a blood sugar measurement over time
* blood\_glucose\_level – blood glucose measurement in mg/Dl

This is a modified version of a dataset available online. You must use this version of the dataset, which has been modified in specific ways for the purposes of this assessment.