Project Idea #2

Data Mining Project on Diabetes Prediction

Diabetes is one of the most common and hazardous diseases on the planet. It requires a lot of care and proper medication to keep the disease in control. If you are curious about data mining projects in healthcare, you should explore the diabetes dataset.

Dataset: The data consist of medical information, laboratory analysis... etc. The data that have been entered initially into the system are: No. of Patient, Sugar Level Blood, Age, Gender, Creatinine ratio(Cr), Body Mass Index (BMI), Urea, Cholesterol (Chol), Fasting lipid profile, including total, LDL, VLDL, Triglycerides(TG) and HDL Cholesterol, HBA1C, Class (the patient's diabetes disease class may be Diabetic, Non-Diabetic, or Predict-Diabetic).

The project implementation steps will go as follows:

- Understand the dataset attributes
- Apply the required data cleaning methods
- Detect the outliers
- Implement different classification models to investigate the performance of each classifier on diabetes datasets.
- Mention your observations and study the parameters (features) to determine the major factors affecting the onset of diabetes
- (What percentage of younger people are prone to be diagnosed with diabetes disease?
 - Are women more prone to diabetes, or is it the other way? etc.)
- Visualize the result of data in plots (discover the potential plots to describe result)