**Diabetes**

* The load\_diabetes function is part of the scikit-learn library, which provides an inbuilt Diabetes dataset.
* Dataset for predicting diabetes presence using Logistic Regression.

**Steps involved:**

* The load\_diabetes function from scikit-learn loads the dataset into a **DataFrame**.
* diabetes.frame.head() displays the first few rows of the dataset.
* X contains the feature values (e.g., BMI, age, blood pressure, etc.).
* Y contains the target values (a continuous value representing diabetes progression).
* (y > np.median(y)).astype(int) creates a binary.
* Splits the dataset into **training** (80%) and **testing** (20%) sets.
* Creating a **Logistic Regression** model.
* The trained model predicts outcomes for X\_test.
* Compare predictions (y\_pred) with actual values (y\_test). \
* Displays a detailed evaluation of the model's performance.
* A **confusion matrix** shows the number of correct and incorrect predictions.