

Summary:

This project uses the Diabetes dataset in CSV format, which contains medical measurements for patients such as glucose level, BMI, blood pressure, age, and insulin values. The dataset is suitable for a machine learning task that focuses on analyzing medical features and predicting whether a patient has diabetes.

Defining the Machine Learning Problem:

Type of Problem:

This is a classification problem.

Target Variable:

Yes, the dataset includes a target variable called *Outcome*, which indicates whether the patient has diabetes (1) or not (0).

Model Objective:

The model is expected to learn patterns from the medical features and predict whether a patient is likely to have diabetes.

Problem Description:

The goal of this project is to build a machine learning classification model that predicts diabetes status based on medical measurements and patient health indicators.