**About this file**

The **diabetes\_prediction\_dataset.csv file** contains medical and demographic data of patients along with their diabetes status, whether positive or negative. It consists of various features such as age, gender, body mass index (BMI), hypertension, heart disease, smoking history, HbA1c level, and blood glucose level. The Dataset can be utilized to construct machine learning models that can predict the likelihood of diabetes in patients based on their medical history and demographic details.

**Diabetes Prediction Dataset**

The **Diabetes Prediction Dataset** contains **medical and demographic data** of patients, along with their **diabetes status** (positive or negative). It includes key health indicators that influence **diabetes risk**, making it useful for **predictive modeling and healthcare analytics**.

**Table: Dataset Attributes and Description**

|  |  |
| --- | --- |
| **Attribute** | **Description** |
| **Age** | Patient's age (years) |
| **Gender** | Male/Female/Other |
| **BMI** | Body Mass Index (kg/m²) |
| **Hypertension** | Presence of hypertension (0 = No, 1 = Yes) |
| **Heart Disease** | Presence of heart disease (0 = No, 1 = Yes) |
| **Smoking History** | Patient's smoking status (Never, Former, Current, etc.) |
| **HbA1c Level** | Average blood glucose over the past 2–3 months (%) |
| **Blood Glucose Level** | Instantaneous blood sugar level (mg/dL) |
| **Diabetes Status** | Whether the patient has diabetes (Positive/Negative) |