

## **Prediabet: Predicting Diabetes using Deep Learning**

**Objective:** Develop a deep learning model to accurately predict whether a patient has diabetes based on their clinical data.

### **Features**

1. Pregnancies: Number of pregnancies
2. Glucose: Blood glucose level
3. BloodPressure: Blood pressure measurement
4. SkinThickness: Thickness of the skin
5. Insulin: Blood insulin level
6. BMI: Body mass index
7. DiabetesPedigreeFunction: Diabetes percentage
8. Age: Patient's age
9. Target: Outcome (1 for Diabetes, 0 for No Diabetes)

**Problem Type:** Classification (predicting discrete categories)

**Data Split:** Randomly split the dataset into training (80%) and test (20%) sets.

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