**DIABETES PREDICTION USING MACHINE LEARNING**

**❗️ Problem Statement**

Diabetes is a chronic health condition that affects millions worldwide and often goes undiagnosed until serious complications arise. Traditional diagnostic methods can be time-consuming and inaccessible to all patients, especially in resource-limited settings. There is a growing need for an automated, accurate, and easy-to-use tool that can assist in the early detection of diabetes based on common medical inputs.

This project addresses the challenge by developing a machine learning-based system that can predict whether a person is likely to have diabetes. By analyzing inputs such as glucose levels, insulin, BMI, and age, the system aims to assist healthcare professionals and individuals in making faster, data-driven decisions for early intervention and treatment.