



# **EARLY CLASSIFICATION OF DIABETES**

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# INTRODUCTION

Diabetes is one of the fastest growing chronic life threatening diseases that have already affected 422 million people worldwide according to the report of World Health Organization (WHO), in 2018. Due to the presence of a relatively long asymptomatic phase, early detection of diabetes is always desired for a clinically meaningful outcome. Around 50% of all people suffering from diabetes are undiagnosed because of its long-term asymptomatic phase.

# DATASET USED

This dataset contains 520 observations with 17 characteristics, collected using direct questionnaires and diagnosis results from the patients in the Sylhet Diabetes Hospital in Sylhet, Bangladesh.

# PROPOSED METHODOLOGY

- Create a classification model to predict diabetes
  - First, using the xgboost algorithm
  - Second, Creating a Neural Network using the TensorFlow library
- Explore the most common features associated with diabetic risk which was found out to be obesity.
- and try and create a simple webpage where users can test the project out

**LET'S CODE**

