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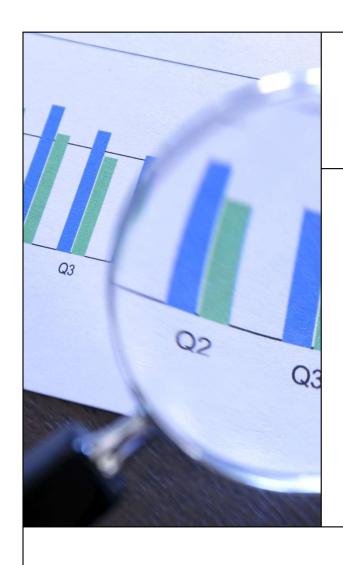


#### Introduction

- Diabetes is a most common disease in these world affecting major part of the population. Although it is a global concern but still most part of population are unaware to deal with it.
- Inability of pancreas to produce required insulin or inability to use it properly to convert glucose into energy is the cause of Diabetes
- Diabetes majorly of 3 types :
  - Diabetes Mellitus
  - Gestational Diabetes
  - Diabetes Insipidus

# **Gantt Chart**





## **Key Points**

- Diabetes is a prevalent and widespread disease affecting a significant portion of the global population.
- The project aims to develop a Data Science solution to predict whether a given individual is diabetic or not based on relevant data.
- The model is built using various classification algorithms, with a focus on K-Nearest Neighbors (KNN) and Support Vector Machine (SVM).
- Creating a user-friendly interface for individuals to easily input their data and receive risk predictions.
- Discuss strategies for keeping the data up-to-date and maintaining the model's accuracy over time.



### Implementation

- Collect a dataset containing relevant features such as age, weight, family history, diet, physical activity, and genetic factors. Ensure the dataset includes labels indicating whether individuals are diabetic or not.
- Split the dataset and testing subsets.
- Choose classification algorithms for the project, such as K-Nearest Neighbors (KNN) and Support Vector Machine (SVM).
- Compare the performance of different models and select the one that provides the highest accuracy in predicting diabetes risk.
- Ensure that your data is private.

