1.3.1. Data Science

 Data Science is gathering Data (Data acquisition) from various sources like web servers, logs,  databases, online repositories and do some process to that Data (Data preparation) and get an outcome as a  solution to a problem or as a referee. Data preparation can be explained as Data cleaning and  Transformation. There can be missing data, duplicate data, misspelled data, likewise. When the data  cleaning happens, we can sort these problems. Data transformation means extracting good, reliable data  from these sources. In this process mostly using algorithms.

In this app, the user will have an option to create an account to log and after

logging we will be gathering some data from the user to give an outcome about diabetes. This app is fully  based on the Data Science. Because, from the logging part to the end we are gathering data from the user  and compare with basic theories and according to that comparison the app will give some notifications to  the user.to make it done we want data science.

We make sense of data to manage diabetes more easily, we understand that everyone is different and  needs a personalized approach. Our solution uses existing sensors which measure health parameters. Data  collected from existing devices and sensors are an input for our algorithm. The algorithm learns individual  patterns from health-related data and defines diabetes levels. For these activities depends on data science.

For an example, the app will ask some questions about user, his habits, life style, then will compare  with the specified theories which we included when create the app and will say whether he will have  diabetes in the future or whether in the meantime he has the diabetes and how much of time will take him  to cure from it, how much is the percentage , what time the user will have a critical situation likewise. In  this we are gathering some data from the user, then we do some process into them and give an output as a  result. This part will be done by Data Science.

In this case we are using our own database to save all these data and some

algorithms when the process is happening.