README

Steps to Execute Code:

1. Ensure python 3.8 and pandas is installed in your system.
2. Unzip the project and open the project directory.
3. For windows: Open command prompt / PowerShell. For Linux / Mac: Open terminal
4. Run **python main.py** in the terminal.
5. Check the results in Results.csv.

NOTE: [add any necessary notes]

Link to resource(s) [if/as needed]

Further step-by-step instructions if/as needed

Steps done to generate results

1. Read in both the csv files. While reading the file I have parsed the date and time columns into a single column.
2. Find the timestamp of the first automode row in insulin data file.
3. Remove null columns from cgm data.
4. Find the dates in cgm data file and thereby find dates with required number of data points (80% of 288 = 230.4 [I have taken 231 since it should be an integer and the smallest integer greater than 230.4 is 231)
5. Filtered data for the required dates.
6. Divide the dataset into manual data and auto mode data.
7. Calculate all three metrics according for manual and auto mode. For metric calculation I have found out the unique number of days containing the data for a particular datapoint like hyperglycemia and also the percentage for that datapoint for that day. Finally, I have divided the total percent by the number of unique datapoints.
8. Write the data to Results.csv file.