***README – 584 Project:*** Analyzing and Predicting Blood Glucose responses to Dietary Intake

Note: To execute the code properly use the specific excel files with the corresponding patient’s name.

2210:

First, use the below code to read that specific file, as each xlsx file is preprocessed

df = pd.read\_excel('./2210-v1.xlsx')

df.head()

Second, use the below partitions by the specific number to get the same result as we did.

glucose = df['Glucose Value (mg/dL)'].values

timestamp = df['Timestamp (YYYY-MM-DDThh:mm:ss)'].values

# partitions = np.linspace(0, len(df), 4).astype(np.int32)

partitions = [0, 3121, 5940, 8562]

food\_timesteps = df['food consumed']

food\_timesteps = food\_timesteps[~pd.isna(food\_timesteps)].index

df1, df2, df3 = df[partitions[0]:partitions[1]], df[partitions[1]:partitions[2]], df[partitions[2]:partitions[3]]

df.shape

2211:

First, use the path below

'./2211 final.xlsx'

Second, divide the excel file according to the given partitions.

glucose = df['Glucose Value (mg/dL)'].values

timestamp = df['Timestamp (YYYY-MM-DDThh:mm:ss)'].values

# partitions = np.linspace(0, len(df), 4).astype(np.int32)

**partitions = [0, 2855, 6966, 9687]**

food\_timesteps = df['food consumed']

food\_timesteps = food\_timesteps[~pd.isna(food\_timesteps)].index

**df1, df2, df3 = df[partitions[0]:partitions[1]], df[partitions[1]:partitions[2]], df[partitions[2]:partitions[3]]**

df.shape

2215:

First, use the path below

./2215.xlsx

Second, use the partitions as displayed

glucose = df['Glucose Value (mg/dL)'].values

timestamp = df['Timestamp (YYYY-MM-DDThh:mm:ss)'].values

# partitions = np.linspace(0, len(df), 4).astype(np.int32)

**partitions = [0, 2070]**

food\_timesteps = df['Food Consumed']

food\_timesteps = food\_timesteps[~pd.isna(food\_timesteps)].index

**df1 = df[partitions[0]:partitions[1]]**

df.shape

Note: In this patients data there is only one partition.

Executing just df1 is enough for this particular patient, you can just delete the code for df2 and df3.

2218:

First, use the path below

./2218-V1.xlsx

Next, use the partitions as said below

glucose = df['Glucose Value (mg/dL)'].values

timestamp = df['Timestamp (YYYY-MM-DDThh:mm:ss)'].values

# partitions = np.linspace(0, len(df), 4).astype(np.int32)

**partitions = [0, 2886, 5990, 8968]**

food\_timesteps = df['food consumed']

food\_timesteps = food\_timesteps[~pd.isna(food\_timesteps)].index

**df1, df2, df3 = df[partitions[0]:partitions[1]], df[partitions[1]:partitions[2]], df[partitions[2]:partitions[3]]**

df.shape

2221:

First, use the path below

./2221 final (2).xlsx

Next , divide the dataset into the partitions given below

glucose = df['Glucose Value (mg/dL)'].values

timestamp = df['Timestamp (YYYY-MM-DDThh:mm:ss)'].values

# partitions = np.linspace(0, len(df), 4).astype(np.int32)

**partitions = [0, 3400, 6800]**

food\_timesteps = df['food consumed']

food\_timesteps = food\_timesteps[~pd.isna(food\_timesteps)].index

**df1, df2 = df[partitions[0]:partitions[1]], df[partitions[1]:partitions[2]]**

df.shape