Database Schema Plans (in CVSs)

- Each table will be in a separate directory with CSVs in them for each entry
- Tables aren't normalized on purpose so can utilize and practice PANDAS
- Data is randomly generated, but I tried to make it as realistic as possible
- Primary Key Values are Unique
- Data labeled with *\$*, means try to use to make a ML model to classify a Good_Lead for a customer

Person Table

- pld- Primary Key
 - o unique 8 digit key
- FIRST NAME
 - o 'firstName'+ str(unique int)
- MIDDILE INITIAL
 - o Random letter
- LAST_NAME
 - o 'lastname'+ str(unique int)
- UTC TIMEZONE
 - -12<= Random int <= +12</p>
- EMAIL
 - o 'random unique string'+@gmail.com
- PHONE NUMBER
 - +1- 10 random unique digits
- (*\$*) PLATFORM A CONVO COUNT
- (*\$*)PLATFORM B CONVO COUNT
- (*\$*)PLATFORM C CONVO COUNT
 - o **ALL THREE** of these are added intertively when conversation is created

Customer

- pID- Primary Key
- GOOD LEAD
 - True determined after EDA analysis

CustomerRepEmplyee

- pID- Primary Key
- COMPANY
 - o 'Google', 'Microsoft', 'Amazon', or 'Facebook'

Conversation Table

- ConversationID- Primary Key
- Customer_pID- Foreign Key
- CustomerRep_pID- foreign Key
- (*\$*) LENGTH OF CONVO MINS
 - Random Gaussian int >=0
 - Mean=5
 - Std = 5
- (*\$*) IS CALL
 - o Boolean 50/50 chance
- (*\$*) IS TEXT CHAT
 - o Boolean 50/50 chance
- (***\$***) PLATFORM
 - o A, B, or C
 - o Higher probility of A then B then C

Text

- textId- primary Key
 - o unique 12 digit key
- Conversation id-Foreign Key
- pID- foreign Key
 - The pID of the person who generated this text
- (*\$*) TEXT
 - o Randomly generated real words separated by spaces
 - For the type of words, there will be two choices and the same if in the same conversation
 - Positive words
 - Another Negatives
 - o It will contain 10x as more filler words like 'the' 'in' 'what'
 - Will have a zero centered Gaussian Distribution of the positive/negative words to choose, so some show up more frequently than others
 - Index of word chosen form this and will be only positive