

```
# import Libraries
import pandas as pd
import numpy as np
import tensorflow as tf

# import dataset as df
df = pd.read_csv("data.csv")

# Check data to see what I'm working with
print(df)

# The image on the board says the data has 8 columns
# Columns: key, fare_amount, pickup_datetime, pickup_longitude, pickup_latitude, dropoff_longitude, dropoff_latitude,
# passenger_count.

# Euclidean distance =  $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ 
# Where:  $(x_1, y_1)$  is the coordinate of the first point. (pickup location)
#  $(x_2, y_2)$  is the coordinate of the second point. (dropoff location)
# make conditional statement to drop values from dataset that have zero for all coordinates.
df = df[df.drop(0) != 0].something like this.

# drop null values from dataset
df = df.dropna()

# reset index positions
df = df.reset_index()

# set euclidean distance column
def euc_distance(lat1, lon1, lat2, lon2):
    return(((lat1 - lat2)**2 + (lon1 - lon2)**2)**0.5)

# set euclidean distance column
df['distance'] = euc_distance(df['pickup_latitude'], df['pickup_longitude'], df['dropoff_latitude'], df['dropoff_longitude'])
```

Off the top of my head this is as much as I can think of. The next steps would be to see how I could use the data to make a model. I'd have to decide what my desired output is to look like and base my model's architecture off it. This would also dictate what type of model I choose as well as its hyperparameters.