Jonathan Schultz

✓ Must import proper libraries
✓ Must Import data usv and perform
Feature engineering
Must train split test data 70% 30%
✓ Must design x data and y data
✓ Create hidden layer select activation function, ✓
Optimizer, ✓ and loss function

X Data = pickup date time, pickup_longitude, pickup_latitude, dropoff_latitude, dropoff_longitude,
Passenger_count

Y data = Fare_amount

#Importing models
Import pandas as pd
Import models from keras

First code only using Euclidean distance as X-data

pd.read.df.('Nyc_taxi_fares.csv)
#Feature engineering
print df(is.null)

drop df.is.null values

#Creating the euc_distance equation
```
def euc_Distance (lat1, long1, lat2, long2):   #defining the euc-distance equation.
    return (((lat1 - lat2)**2+(long1 - long2)**2)**.5)
```
euc_distance = √ [(dropoff_longitude - pickup_latitude)² + (dropoff_longitude - pickup_longitude)²]

~~lat1 = (df ['dropoff_latitude']~~
~~lat2 = (df ['pickup_latitude']~~
~~long1 = (df ['dropoff_longitude']~~
~~long2 = (df ['pickup_longitude']~~

#Providing values for the euc-distance equation referring to our pd file
```
df['distance'] = euc_distance(df['pickup_latitude'], df['pickup_longitude'],
                 df['dropoff_latitude], df[dropoff_longitude]])
```
```
x_data = df['distance']      #Creating x and y data, x is 'distance' outcome variable
y_data = df['fare_amount']   # is 'fare_amount'
```
→ Split train and test data

Add hidden layer

add models.denselayer 12 ('RELU')
add models.denselayer 8 ('rELU')
add models.denslayer 1 ('Sigmoid')