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Title: Predict the price of the Uber ride from a given pickup point to the agreed drop-off location. Perform following tasks: 1. Pre-process the dataset. 2. Identify outliers. 3. Check the correlation. 4. Implement linear regression and random forest regression models. Evaluate the models and compare their respective scores like R2, RMSE, etc. Dataset link: https://www.kaggle.com/datasets/yasserh/uber-fares-datase

import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.model\_selection import train\_test\_split

In [2]: df = pd.read\_csv("C:/Users/Pratibha/Downloads/archive.zip")
df

Unnamed:		key	fare_amount	pickup_datetime	pickup_longitude	pickup_latitude	dropoff_longitude	dropoff
0	24238194	2015-05-07 19:52:06.0000003	7.5	2015-05-07 19:52:06 UTC	-73.999817	40.738354	-73.999512	4
1	27835199	2009-07-17 20:04:56.0000002	7.7	2009-07-17 20:04:56 UTC	-73.994355	40.728225	-73.994710	4
2	44984355	2009-08-24 21:45:00.00000061	12.9	2009-08-24 21:45:00 UTC	-74.005043	40.740770	-73.962565	4
3	25894730	2009-06-26 08:22:21.0000001	5.3	2009-06-26 08:22:21 UTC	-73.976124	40.790844	-73.965316	4
4	17610152	2014-08-28 17:47:00.000000188	16.0	2014-08-28 17:47:00 UTC	-73.925023	40.744085	-73.973082	4
199995	42598914	2012-10-28 10:49:00.00000053	3.0	2012-10-28 10:49:00 UTC	-73.987042	40.739367	-73.986525	4
199996	16382965	2014-03-14 01:09:00.0000008	7.5	2014-03-14 01:09:00 UTC	-73.984722	40.736837	-74.006672	4
199997	27804658	2009-06-29 00:42:00.00000078	30.9	2009-06-29 00:42:00 UTC	-73.986017	40.756487	-73.858957	4
199998	20259894	2015-05-20 14:56:25.0000004	14.5	2015-05-20 14:56:25 UTC	-73.997124	40.725452	-73.983215	4
199999	11951496	2010-05-15 04:08:00.00000076	14.1	2010-05-15 04:08:00 UTC	-73.984395	40.720077	-73.985508	4

## 1. Pre-process the dataset.

In [3]: df.shape

Out[3]: (200000, 9)

In [4]: df.head

```
Out[4]:
         <bound method NDFrame.head of</pre>
                                                                                             key fare_amount \
                                                   Unnamed: 0
                                                                          7.5
                    24238194
                                 2015-05-07 19:52:06.0000003
                    27835199
                                 2009-07-17 20:04:56.0000002
                                                                          7.7
         1
         2
                    44984355
                                2009-08-24 21:45:00.00000061
                                                                         12.9
         3
                    25894730
                                 2009-06-26 08:22:21.0000001
                                                                          5.3
         4
                    17610152
                               2014-08-28 17:47:00.000000188
                                                                         16.0
         199995
                    42598914
                                2012-10-28 10:49:00.00000053
                                                                          3.0
         199996
                    16382965
                                 2014-03-14 01:09:00.0000008
                                                                          7.5
         199997
                    27804658
                                2009-06-29 00:42:00.00000078
                                                                         30.9
         199998
                    20259894
                                 2015-05-20 14:56:25.0000004
                                                                         14.5
         199999
                    11951496
                                2010-05-15 04:08:00.00000076
                                                                         14.1
                           pickup_datetime pickup_longitude
                                                                 pickup_latitude
         0
                  2015-05-07 19:52:06 UTC
                                                                        40.738354
                                                    -73.999817
         1
                  2009-07-17 20:04:56 UTC
                                                    -73.994355
                                                                        40.728225
         2
                  2009-08-24 21:45:00 UTC
                                                    -74.005043
                                                                        40.740770
         3
                  2009-06-26 08:22:21 UTC
                                                    -73.976124
                                                                        40.790844
         4
                  2014-08-28 17:47:00 UTC
                                                    -73.925023
                                                                        40.744085
         199995
                  2012-10-28 10:49:00 UTC
                                                    -73.987042
                                                                        40.739367
         199996
                  2014-03-14 01:09:00 UTC
                                                    -73.984722
                                                                        40.736837
         199997
                  2009-06-29 00:42:00 UTC
                                                    -73.986017
                                                                        40.756487
         199998
                  2015-05-20 14:56:25 UTC
                                                    -73.997124
                                                                        40.725452
                 2010-05-15 04:08:00 UTC
         199999
                                                    -73.984395
                                                                        40.720077
                  dropoff longitude dropoff latitude passenger count
         0
                          -73.999512
                                               40.723217
                                                                          1
         1
                          -73.994710
                                               40.750325
                                                                          1
         2
                          -73.962565
                                               40.772647
                                                                          1
         3
                          -73.965316
                                               40.803349
                                                                          3
         4
                          -73.973082
                                               40.761247
                                                                          5
                          -73.986525
                                               40.740297
         199995
                                                                          1
         199996
                          -74.006672
                                               40.739620
                                                                          1
                                                                          2
         199997
                          -73.858957
                                               40.692588
         199998
                          -73.983215
                                               40.695415
                                                                          1
                          -73.985508
                                                                          1
         199999
                                               40.768793
         [200000 rows x 9 columns]>
In [5]: df.isnull()
                 Unnamed:
                             key fare_amount pickup_datetime pickup_longitude pickup_latitude dropoff_longitude dropoff_latitude pas
              0
                     False
                           False
                                        False
                                                         False
                                                                          False
                                                                                         False
                                                                                                           False
                                                                                                                           False
                     False
                            False
                                         False
                                                         False
                                                                          False
                                                                                         False
                                                                                                           False
                                                                                                                           False
              2
                     False
                           False
                                        False
                                                         False
                                                                          False
                                                                                         False
                                                                                                           False
                                                                                                                           False
              3
                     False False
                                        False
                                                         False
                                                                          False
                                                                                         False
                                                                                                           False
                                                                                                                           False
              4
                                                                                                           False
                     False False
                                        False
                                                         False
                                                                          False
                                                                                         False
                                                                                                                           False
             ...
         199995
                     False False
                                        False
                                                         False
                                                                          False
                                                                                         False
                                                                                                           False
                                                                                                                           False
         199996
                     False False
                                        False
                                                         False
                                                                                                           False
                                                                                                                           False
                                                                          False
                                                                                         False
         199997
                                                                          False
                     False False
                                        False
                                                         False
                                                                                         False
                                                                                                           False
                                                                                                                           False
         199998
                     False
                           False
                                         False
                                                         False
                                                                          False
                                                                                         False
                                                                                                           False
                                                                                                                           False
         199999
                     False False
                                         False
                                                         False
                                                                          False
                                                                                         False
                                                                                                           False
                                                                                                                           False
        200000 rows × 9 columns
```

In [6]: df.drop(columns=["Unnamed: 0", "key"], inplace=True)

df.head()

```
Out[6]:
            fare_amount
                               pickup_datetime pickup_longitude pickup_latitude dropoff_longitude dropoff_latitude passenger_count
                             2015-05-07 19:52:06
          0
                     7.5
                                                     -73.999817
                                                                     40.738354
                                                                                     -73.999512
                                                                                                     40.723217
                                          UTC
                             2009-07-17 20:04:56
          1
                     7.7
                                                     -73.994355
                                                                     40.728225
                                                                                     -73.994710
                                                                                                     40.750325
                                                                                                                              1
                                          UTC
                             2009-08-24 21:45:00
          2
                    12.9
                                                     -74.005043
                                                                     40.740770
                                                                                     -73.962565
                                                                                                     40.772647
                                                                                                                              1
                                          UTC
                             2009-06-26 08:22:21
          3
                     5.3
                                                     -73.976124
                                                                     40.790844
                                                                                     -73.965316
                                                                                                     40.803349
                                                                                                                              3
                             2014-08-28 17:47:00
          4
                                                                                                                              5
                    16.0
                                                     -73.925023
                                                                     40.744085
                                                                                     -73.973082
                                                                                                     40.761247
                                          UTC
 In [7]: df.isnull().sum()
 Out[7]: fare amount
                                 0
          pickup_datetime
                                 0
          pickup longitude
                                 0
          pickup_latitude
                                 0
          {\tt dropoff\_longitude}
                                 1
          dropoff_latitude
                                 1
          passenger_count
                                 0
          dtype: int64
 In [8]: df['dropoff_latitude'].fillna(value=df['dropoff_latitude'].mean(),inplace = True)
          df['dropoff_longitude'].fillna(value=df['dropoff_longitude'].median(),inplace = True)
          df.dtypes
 Out[8]: fare_amount
                                 float64
          pickup datetime
                                  object
                                 float64
          pickup_longitude
          pickup latitude
                                 float64
          dropoff_longitude
                                 float64
          dropoff latitude
                                 float64
                                   int64
          {\tt passenger\_count}
          dtype: object
 In [9]: df.pickup datetime = pd.to datetime(df.pickup datetime)
          df.dtypes
 Out[9]: fare amount
                                              float64
                                 datetime64[ns, UTC]
          pickup_datetime
          pickup longitude
                                              float64
          pickup_latitude
                                              float64
          dropoff longitude
                                              float64
          dropoff_latitude
                                              float64
          passenger_count
                                                int64
          dtype: object
In [10]: df = df.assign(hour = df.pickup datetime.dt.hour,
          day = df.pickup datetime.dt.day,
          month = df.pickup datetime.dt.month,
          year = df.pickup_datetime.dt.year,
```

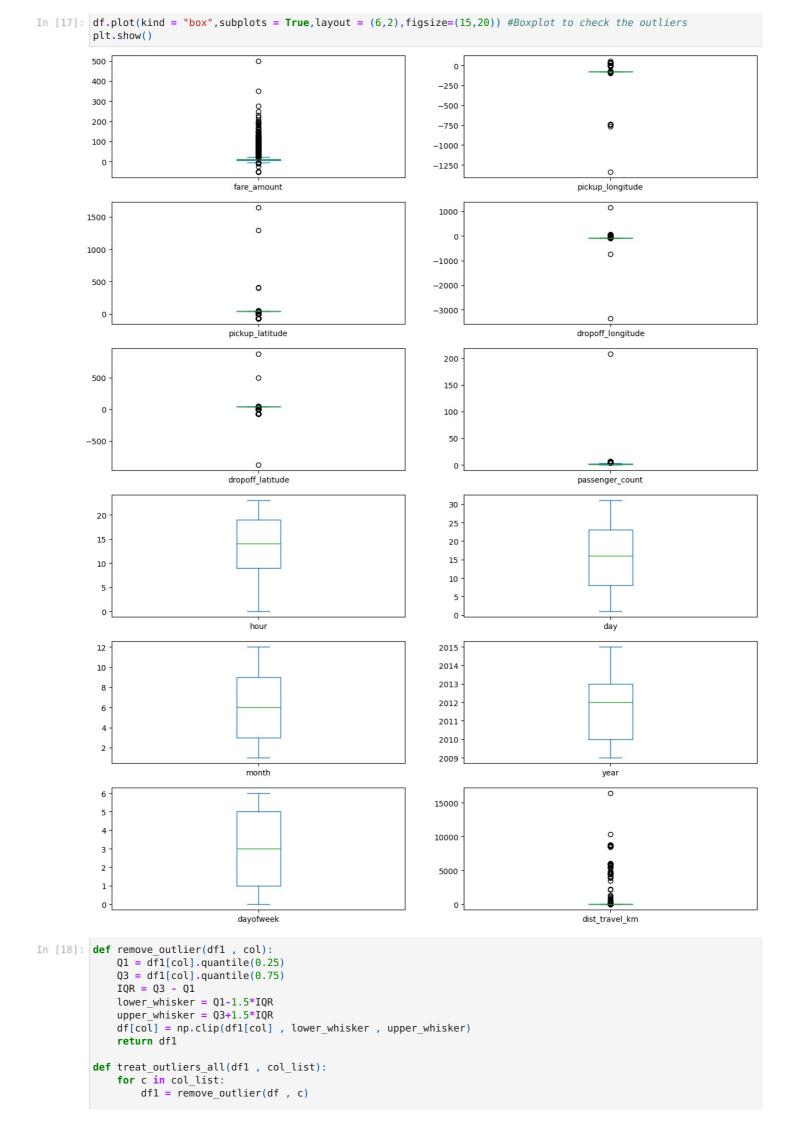
dayofweek = df.pickup\_datetime.dt.dayofweek)

df

t[10]:	fa	re_amount	pickup_datetime	pickup_longitude	pickup_latitude	dropoff_longitude	dropoff_latitude	passer	nger_c	count I	hοι
	0	7.5	2015-05-07 19:52:06+00:00	-73.999817	40.738354	-73.999512	40.723217			1	1
	1	7.7	2009-07-17 20:04:56+00:00	-73.994355	40.728225	-73.994710	40.750325			1	2
	2	12.9	2009-08-24 21:45:00+00:00	-74.005043	40.740770	-73.962565	40.772647			1	2
	3	5.3	2009-06-26 08:22:21+00:00	-73.976124	40.790844	-73.965316	40.803349			3	
	4	16.0	2014-08-28 17:47:00+00:00	-73.925023	40.744085	-73.973082	40.761247			5	1
	199995	3.0	2012-10-28 10:49:00+00:00	-73.987042	40.739367	-73.986525	40.740297			1	1
	199996	7.5	2014-03-14 01:09:00+00:00	-73.984722	40.736837	-74.006672	40.739620			1	
	199997	30.9	2009-06-29 00:42:00+00:00	-73.986017	40.756487	-73.858957	40.692588			2	
	199998	14.5	2015-05-20 14:56:25+00:00	-73.997124	40.725452	-73.983215	40.695415			1	1
	199999	14.1	2010-05-15 04:08:00+00:00	-73.984395	40.720077	-73.985508	40.768793			1	
	200000 row	s × 12 colun	nns								
	4										Þ
[11]:	df = df.d	drop(["pic	kup_datetime"],	axis =1)							
:[11]:	fa	re_amount	pickup_longitude	pickup_latitude	dropoff_longitude	dropoff_latitude	passenger_count	hour	day	month	y
[11]:	0	re_amount	pickup_longitude -73.999817	pickup_latitude 40.738354	dropoff_longitude -73.999512		passenger_count	hour 19	day 7		2
[11]:										5	_
[11]:	0	7.5	-73.999817	40.738354	-73.999512	40.723217	1	19	7	5 7	2
:[11]:	0	7.5 7.7	-73.999817 -73.994355	40.738354 40.728225	-73.999512 -73.994710	40.723217	1	19 20	7	5 7 8	2
:[11]:	0 1 2	7.5 7.7 12.9	-73.999817 -73.994355 -74.005043	40.738354 40.728225 40.740770	-73.999512 -73.994710 -73.962565	40.723217 40.750325 40.772647	1 1	19 20 21	7 17 24	5 7 8 6	2 2 2
:[11]:	0 1 2 3	7.5 7.7 12.9 5.3	-73.999817 -73.994355 -74.005043 -73.976124	40.738354 40.728225 40.740770 40.790844	-73.999512 -73.994710 -73.962565 -73.965316	40.723217 40.750325 40.772647 40.803349 40.761247	1 1 1 3	19 20 21 8	7 17 24 26	5 7 8 6	2 2 2 2
(11):	0 1 2 3 4	7.5 7.7 12.9 5.3 16.0	-73.999817 -73.994355 -74.005043 -73.976124 -73.925023	40.738354 40.728225 40.740770 40.790844 40.744085	-73.999512 -73.994710 -73.962565 -73.965316 -73.973082	40.723217 40.750325 40.772647 40.803349 40.761247	1 1 1 3 5	19 20 21 8 17	7 17 24 26 28	5 7 8 6 8	2 2 2 2
t(11):	0 1 2 3 4	7.5 7.7 12.9 5.3 16.0	-73.999817 -73.994355 -74.005043 -73.976124 -73.925023	40.738354 40.728225 40.740770 40.790844 40.744085	-73.999512 -73.994710 -73.962565 -73.965316 -73.973082	40.723217 40.750325 40.772647 40.803349 40.761247  40.740297	1 1 1 3 5	19 20 21 8 17 	7 17 24 26 28 	5 7 8 6 8 	2 2 2 2
t[11]:	0 1 2 3 4 	7.5 7.7 12.9 5.3 16.0 	-73.999817 -73.994355 -74.005043 -73.976124 -73.925023 	40.738354 40.728225 40.740770 40.790844 40.744085  40.739367	-73.999512 -73.994710 -73.962565 -73.965316 -73.973082  -73.986525	40.723217 40.750325 40.772647 40.803349 40.761247  40.740297 40.739620	1 1 1 3 5 	19 20 21 8 17  10	7 17 24 26 28 	5 7 8 6 8  10	2 2 2 2 2
τ[11]:	0 1 2 3 4  199995	7.5 7.7 12.9 5.3 16.0  3.0 7.5	-73.999817 -73.994355 -74.005043 -73.976124 -73.92502373.987042 -73.984722	40.738354 40.728225 40.740770 40.790844 40.744085  40.739367 40.736837	-73.999512 -73.994710 -73.962565 -73.965316 -73.97308273.986525 -74.006672	40.723217 40.750325 40.772647 40.803349 40.761247  40.740297 40.739620	1 1 1 3 5  1	19 20 21 8 17  10 1	7 17 24 26 28  28	5 7 8 6 8  10 3 6	2 2 2 2 2 2
t[11]:	0 1 2 3 4  199995 199996	7.5 7.7 12.9 5.3 16.0  3.0 7.5	-73.999817 -73.994355 -74.005043 -73.976124 -73.92502373.987042 -73.984722 -73.986017	40.738354 40.728225 40.740770 40.790844 40.744085  40.739367 40.736837 40.756487	-73.999512 -73.994710 -73.962565 -73.965316 -73.97308273.986525 -74.006672 -73.858957	40.723217 40.750325 40.772647 40.803349 40.761247  40.740297 40.739620 40.692588 40.695415	1 1 1 3 5  1 1	19 20 21 8 17  10 1	7 17 24 26 28  28 14	5 7 8 6 8  10 3 6 5	2 2 2 2 2 2 2 2
	0 1 2 3 4  199995 199996 199997 199998 199999	7.5 7.7 12.9 5.3 16.0 3.0 7.5 30.9 14.5	-73.999817 -73.994355 -74.005043 -73.976124 -73.92502373.987042 -73.984722 -73.986017 -73.997124 -73.984395	40.738354 40.728225 40.740770 40.790844 40.744085  40.739367 40.736837 40.756487 40.725452	-73.999512 -73.994710 -73.962565 -73.965316 -73.97308273.986525 -74.006672 -73.858957 -73.983215	40.723217 40.750325 40.772647 40.803349 40.761247  40.740297 40.739620 40.692588 40.695415	1 1 1 3 5  1 1 2	19 20 21 8 17 10 1 0 14	7 17 24 26 28  28 14 29	5 7 8 6 8  10 3 6 5	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	0 1 2 3 4  199995 199996 199997 199998	7.5 7.7 12.9 5.3 16.0 3.0 7.5 30.9 14.5	-73.999817 -73.994355 -74.005043 -73.976124 -73.92502373.987042 -73.984722 -73.986017 -73.997124 -73.984395	40.738354 40.728225 40.740770 40.790844 40.744085  40.739367 40.736837 40.756487 40.725452	-73.999512 -73.994710 -73.962565 -73.965316 -73.97308273.986525 -74.006672 -73.858957 -73.983215	40.723217 40.750325 40.772647 40.803349 40.761247  40.740297 40.739620 40.692588 40.695415	1 1 1 3 5  1 1 2	19 20 21 8 17 10 1 0 14	7 17 24 26 28  28 14 29	5 7 8 6 8  10 3 6 5	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	0 1 2 3 4  199995 199996 199997 199998 199999 200000 row	7.5 7.7 12.9 5.3 16.0 3.0 7.5 30.9 14.5 14.1 rs × 11 column	-73.999817 -73.994355 -74.005043 -73.976124 -73.92502373.987042 -73.984722 -73.986017 -73.997124 -73.984395	40.738354 40.728225 40.740770 40.790844 40.744085  40.739367 40.736837 40.756487 40.725452 40.720077	-73.999512 -73.994710 -73.962565 -73.965316 -73.97308273.986525 -74.006672 -73.858957 -73.983215 -73.985508	40.723217 40.750325 40.772647 40.803349 40.761247  40.740297 40.739620 40.692588 40.695415 40.768793	1 1 1 3 5  1 1 2	19 20 21 8 17 10 1 0 14	7 17 24 26 28  28 14 29	5 7 8 6 8  10 3 6 5	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	0 1 2 3 4  199995 199996 199997 199998 199999 200000 row	7.5 7.7 12.9 5.3 16.0 3.0 7.5 30.9 14.5 14.1 rs × 11 column	-73.999817 -73.994355 -74.005043 -73.976124 -73.92502373.987042 -73.984722 -73.986017 -73.997124 -73.984395 nns	40.738354 40.728225 40.740770 40.790844 40.744085  40.739367 40.736837 40.756487 40.725452 40.720077	-73.999512 -73.994710 -73.962565 -73.965316 -73.97308273.986525 -74.006672 -73.858957 -73.983215 -73.985508	40.723217 40.750325 40.772647 40.803349 40.761247  40.740297 40.739620 40.692588 40.695415 40.768793	1 1 1 3 5  1 1 2	19 20 21 8 17 10 1 0 14	7 17 24 26 28  28 14 29	5 7 8 6 8  10 3 6 5	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

```
lon1, lan1, lon2, lan2 = map(radians, [longitude1[pos], latitude1[pos], longitude2[pos], latitude2[pos]
dist_lon = lon2 - lon1
dist_lan = lan2 - lan1
                      a = \sin(\operatorname{dist\_lan/2})^{**2} + \cos(\operatorname{lan1}) * \cos(\operatorname{lan2}) * \sin(\operatorname{dist\_lon/2})^{**2}
                      #radius of earth = 6371
                      c = 2 * asin(sqrt(a)) * 6371
                      travel_dist.append(c)
                 return travel_dist
In [16]: df['dist_travel_km'] = distance_formula(df.pickup_longitude.to_numpy(), df.pickup_latitude.to_numpy(), df.dropo
```

2. Identify outliers.



```
In [19]: df = treat_outliers_all(df , df.iloc[: , 0::])
In [20]: df.plot(kind = "box", subplots = True, layout = (7,2), figsize=(15,20))
           plt.show()
             20
                                                                                  -73.94
             15
                                                                                  -73.96
             10
                                                                                  -73.98
              5
                                                                                  -74.00
              0
                                                                                  -74.02
                                         fare_amount
                                                                                                                pickup_longitude
                                                                                 -73.925
          40.800
                                                                                 -73.950
          40.775
                                                                                 -73.975
          40.750
          40.725
                                                                                 -74.000
          40.700
                                                                                 -74.025
                                        pickup_latitude
                                                                                                                dropoff_longitude
           40.80
                                                                                      2
           40.75
                                                                                       1
           40.70
                                        dropoff_latitude
                                                                                                                passenger_count
                                                                                     30
             20
             15
                                                                                     20
             10
                                                                                     10
              5
              0
                                                                                      0
                                             hour
                                                                                                                     day
            12.5
            10.0
            7.5
                                                                                   2012
             5.0
                                                                                   2010
             2.5
                                            month
                                                                                                                     year
              2
                                          dayofweek
                                                                                                                 dist_travel_km
```

3. Check the correlation.

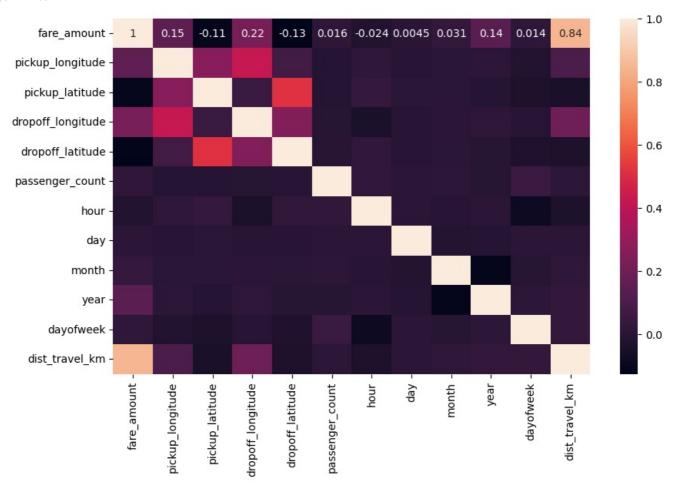
return df1

```
In [21]: corr = df.corr()
corr
```

	fare_amount	pickup_longitude	pickup_latitude	dropoff_longitude	dropoff_latitude	passenger_count	hour
fare_amount	1.000000	0.154069	-0.110842	0.218675	-0.125898	0.015778	-0.023623
pickup_longitude	0.154069	1.000000	0.259497	0.425619	0.073290	-0.013213	0.011579
pickup_latitude	-0.110842	0.259497	1.000000	0.048889	0.515714	-0.012889	0.029681
dropoff_longitude	0.218675	0.425619	0.048889	1.000000	0.245667	-0.009303	-0.046558
dropoff_latitude	-0.125898	0.073290	0.515714	0.245667	1.000000	-0.006308	0.019783
passenger_count	0.015778	-0.013213	-0.012889	-0.009303	-0.006308	1.000000	0.020274
hour	-0.023623	0.011579	0.029681	-0.046558	0.019783	0.020274	1.000000
day	0.004534	-0.003204	-0.001553	-0.004007	-0.003479	0.002712	0.004677
month	0.030817	0.001169	0.001562	0.002391	-0.001193	0.010351	-0.003926
year	0.141277	0.010198	-0.014243	0.011346	-0.009603	-0.009749	0.002156
dayofweek	0.013652	-0.024652	-0.042310	-0.003336	-0.031919	0.048550	-0.086947
dist_travel_km	0.844374	0.098094	-0.046812	0.186531	-0.038900	0.009709	-0.038366

```
In [22]: fig,axis = plt.subplots(figsize = (10,6))
sns.heatmap(df.corr(),annot = True) #Correlation Heatmap (Light values means highly correlated)
```

Out[22]: <Axes: >



4. Implement linear regression and random forest regression models.

	0	7.50	-73.999817	40.738354	-73.999512	40.723217	1.0	19	7	5 2	2	
	1	7.70	-73.994355	40.728225	-73.994710	40.750325	1.0	20	17	7 2	2	
	2	12.90	-74.005043	40.740770	-73.962565	40.772647	1.0	21	24	8 2	2	
	3	5.30	-73.976124	40.790844	-73.965316	40.803349	3.0	8	26	6 2	2	
	4	16.00	-73.929786	40.744085	-73.973082	40.761247	3.5	17	28	8 2	2	
	199995	3.00	-73.987042	40.739367	-73.986525	40.740297	1.0	10	28	10 2	2	
	199996	7.50	-73.984722	40.736837	-74.006672	40.739620	1.0	1	14	3 2	2	
	199997	22.25	-73.986017	40.756487	-73.922036	40.692588	2.0	0	29	6 2	2	
	199998	14.50	-73.997124	40.725452	-73.983215	40.695415	1.0	14	20	5 2	2	
	199999	14.10	-73.984395	40.720077	-73.985508	40.768793	1.0	4	15	5 2	2	
	200000 rows	× 12 columns										
	4									Þ		
251:	<b>from</b> sklea	rn.linear m	odel <b>import</b> Lin	earRegression								
	<pre># initialize the linear regression model reg = LinearRegression()  # Train the model with our training data reg.fit(x_train, y_train)</pre>											
25]:	▼ LinearRe	egression										
	LinearReg	ression()										
<pre>[26]: y_pred_lin = reg.predict(x_test) print(y_pred_lin) [ 6.27615184    5.09986098    9.43641238 11.07663949 12.15392248     11.41496075]</pre>												
27]:	<pre>from sklearn.ensemble import RandomForestRegressor rf = RandomForestRegressor(n_estimators=100) rf.fit(x_train,y_train)</pre>											
27]:	▼ RandomFo	restRegres	sor									
	RandomFor	estRegresso	r()									
28]:	<pre>y_pred_rf print(y_pr</pre>	= rf.predic ed_rf)	t(x_test)									

Out[24]: fare\_amount pickup\_longitude pickup\_latitude dropoff\_longitude dropoff\_latitude passenger\_count hour day month y

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 $[ \ 4.98 \quad \ 6.5285 \quad 9.25 \quad \dots \ 11.5275 \ 11.376 \quad 13.13 \quad ]$