

```
In [2]: import pandas as pd
import matplotlib.pyplot as plt
import plotly.express as px
import seaborn as sns

df2=pd.read_csv("C:\\Users\\Yash Agarwal\\Desktop\\MM.csv")
df2
```

```
Out[2]:
```

	call_ID	productID	ServiceId	engineer_ID	assign_date	total_amount
0	CA001	P001	S001	E001	5/19/2021	2000
1	CA002	P002	S002	E002	5/12/2021	2300
2	CA003	P003	S003	E003	5/23/2021	2700
3	CA004	P004	S002	E002	5/29/2021	1500
4	CA005	P005	S002	E005	6/3/2021	3200
5	CA006	P006	S006	E005	6/15/2021	1200
6	CA007	P001	S007	E003	6/25/2021	1800
7	CA008	P008	S008	E005	6/30/2021	2700
8	CA009	P009	S009	E004	7/2/2021	4100
9	CA010	P010	S010	E002	7/6/2021	2900
10	CA011	P004	S003	E004	7/10/2021	1900
11	CA012	P004	S003	E002	7/14/2021	2200
12	CA013	P011	S006	E001	7/21/2021	3500
13	CA014	P003	S001	E005	7/28/2021	3000
14	CA015	P010	S009	E003	8/1/2021	2000

```
In [4]: fig=px.bar(df2, x='assign_date', y='total_amount', color='ServiceId')
fig.show()
```

```
In [6]: from autoviz.AutoViz_Class import AutoViz_Class
AV = AutoViz_Class()

filename = "C:\\Users\\Yash Agarwal\\Desktop\\MM.csv"
sep = ","
dft = AV.AutoViz(
    filename,
```

```

sep=",",
depVar="",
dfte=None,
header=0,
verbose=0,
lowess=False,
chart_format="svg",
max_rows_analyzed=150000,
max_cols_analyzed=30,
)

```

Imported AutoViz_Class version: 0.0.83. Call using:

```

AV = AutoViz_Class()
AV.AutoViz(filename, sep=',', depVar='', dfte=None, header=0, verbose=0,
            lowess=False, chart_format='svg', max_rows_analyzed=150000, max_cols_analyzed=30)

```

Note: verbose=0 or 1 generates charts and displays them in your local Jupyter notebook.

verbose=2 does not show plot but creates them and saves them in AutoViz_Plots directory in your local machine.

Shape of your Data Set loaded: (15, 6)

C L A S S I F Y I N G V A R I A B L E S

Classifying variables in data set...

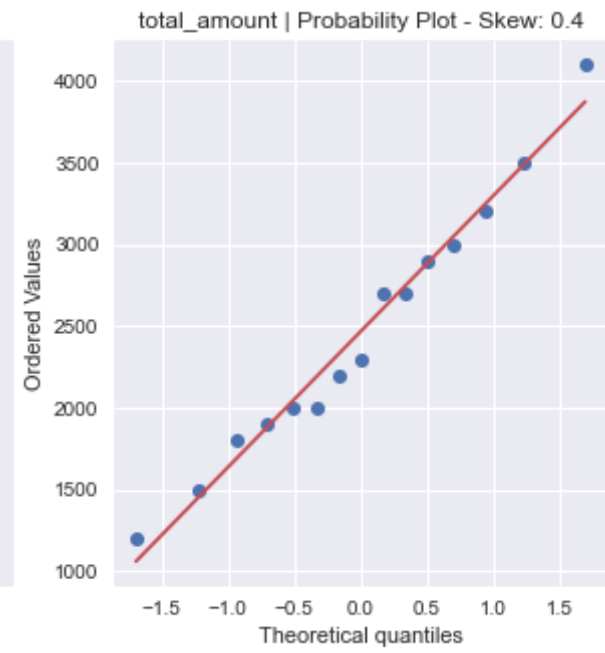
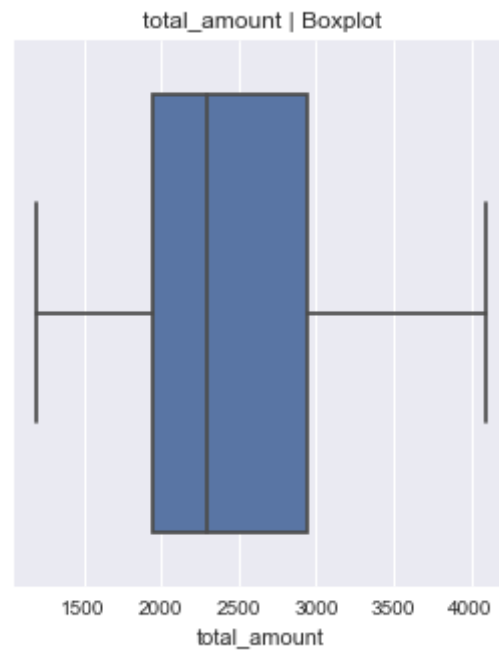
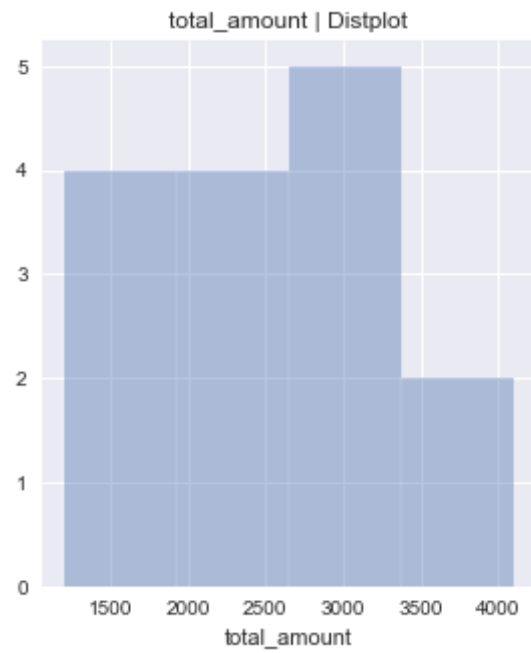
```

Number of Numeric Columns = 0
Number of Integer-Categorical Columns = 1
Number of String-Categorical Columns = 3
Number of Factor-Categorical Columns = 0
Number of String-Boolean Columns = 0
Number of Numeric-Boolean Columns = 0
Number of Discrete String Columns = 0
Number of NLP String Columns = 0
Number of Date Time Columns = 0
Number of ID Columns = 2
Number of Columns to Delete = 0
6 Predictors classified...

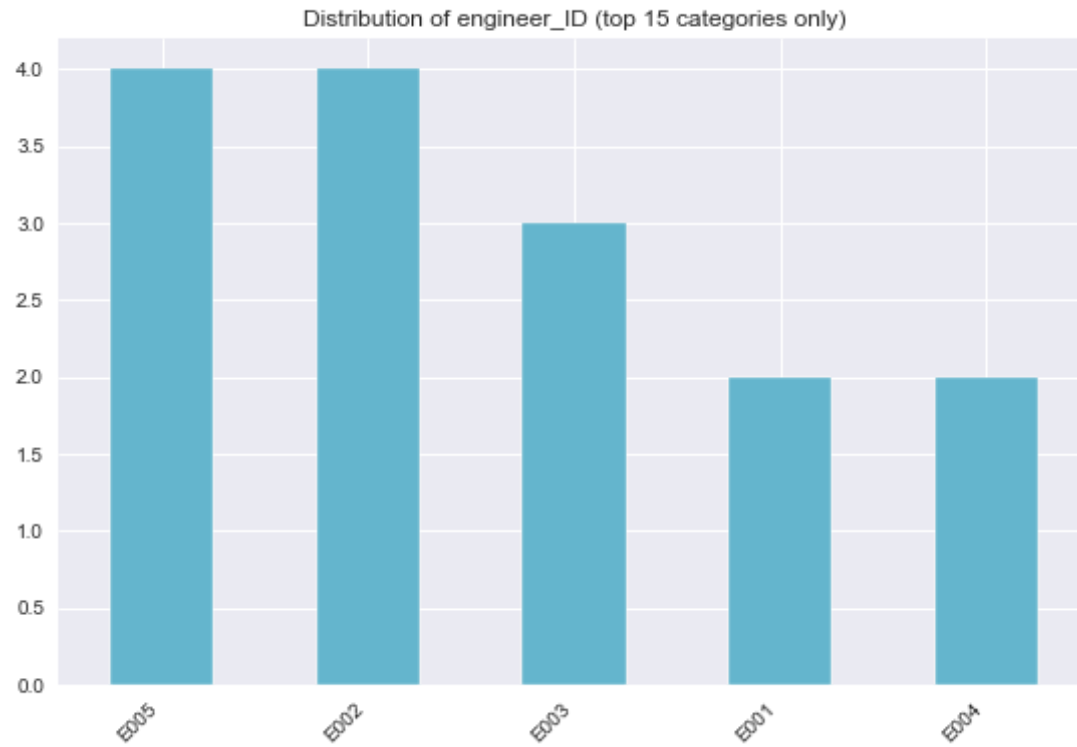
```

This does not include the Target column(s)

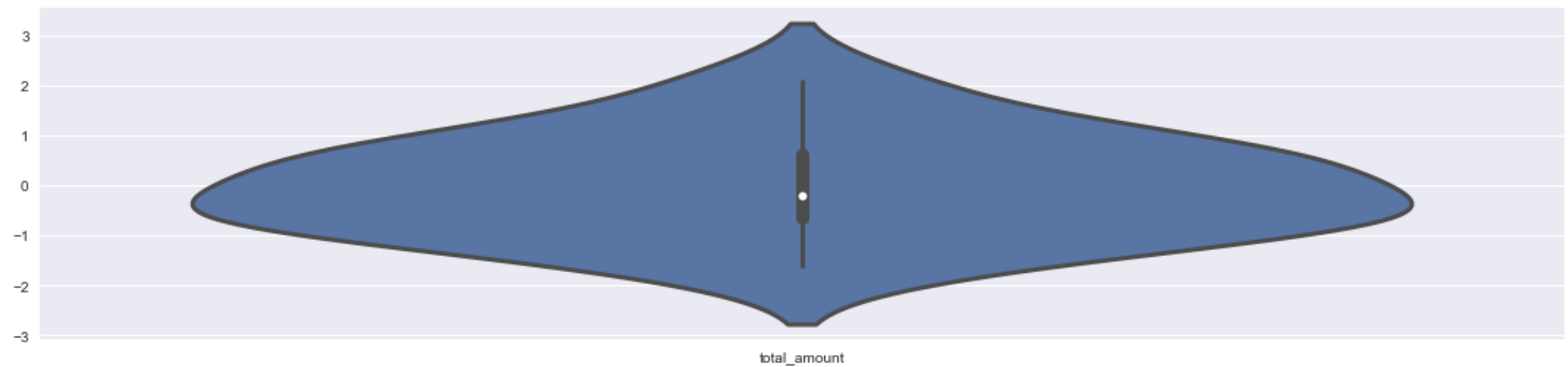
2 variables removed since they were ID or low-information variables



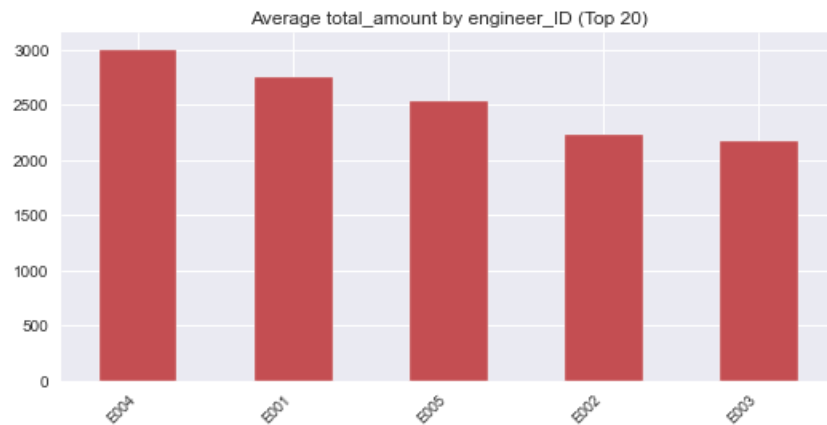
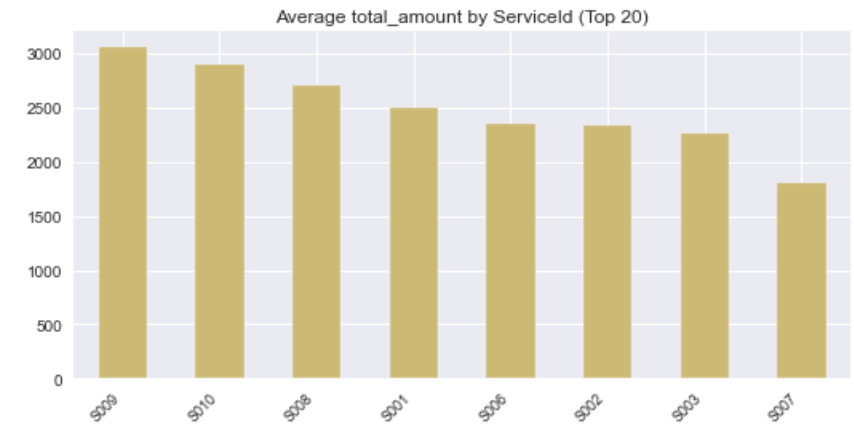
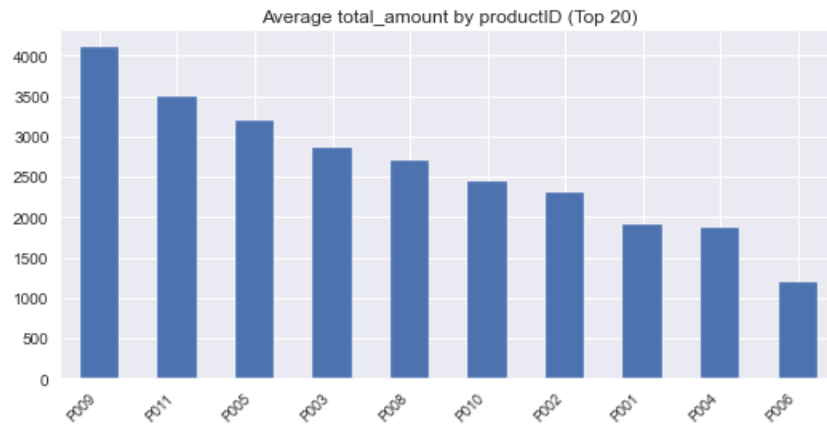
Histograms (KDE plots) of all Continuous Variables



Violin Plot of all Continuous Variables



Bar plots for each Continuous by each Categorical variable



Time to run AutoViz (in seconds) = 3.922

VISUALIZATION Completed

In []: