## Call Center Data from October, 2020 Analysis and report

By: Bishoy Adel Antoon July, 2025 Raw data were sourced from Kaggle (https://www.kaggle.com/)

Formatted columns to match each column's supposed data type.

Missing CSAT values were filled by imputing the avg score for each sentiment category.

The dates in the call\_timestamp were all in Oct except for a few dates, so I fixed non-US locale dates to match the rest of the values in the column.

Call Duration Stats	
Number of Calls	32941
Sum	824222
Mean	25.02115904
Median	25
Std.Dev	11.81603913
Variance	139.6187806
Min	5
Max	45

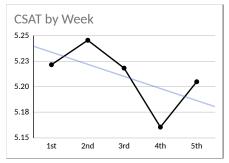
States with highest call volumes	
California	3631
Texas	3572
Florida	2834
New York	1786
Virginia	1164
Ohio	1160
District of Columbia	1110
Pennsylvania	1017
Georgia	926
Illinois	848



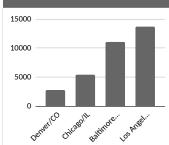
<b>Quick Summary</b>		
Calls came from 461 cities, across 51 states.		
The contact center has sites in Los		
Angeles/CA, Baltimore/MD, Denver/CO,		
Chicago/IL		
Call drivers normal	ly are Billing Question,	
Service Outage, Pa	yments	
Sentiment Distribution		
Very Positive	3170	
n	2020	

Sentiment Distribution	
Very Positive	3170
Positive	3928
Neutral	8754
Negative	11063
Very Negative	6026

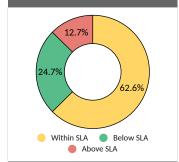
Very Positive		
Positive		
Neutral		
Negative		
Very Negative		



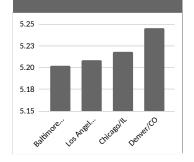
Call Volume by Call Center		
Denver/CO 2776		
Chicago/IL	5419	
Baltimore/MD	11012	
Los Angeles/CA	13734	



	Response time Distribution	
	Within SLA	20625
	Below SLA	8148
	Above SLA	4168
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CSAT By Call Center	
Baltimore/MD 5.20	
Los Angeles/CA	5.21
Chicago/IL	5.22
Denver/CO	5.24



Distribution by Channel	
Phone	10639
Chatbot	8256
Email	7470
Web	6576

