

User Analytics in the Telecommunication Industry

Analyze opportunities for growth and make a recommendation on whether TellCo is worth buying or selling



Most Frequent values

Most Freq. Tcp values

	total_tcp_retransvolbytes_
0	1,767,164.8214

Most Freq. rtt values



Most Freq. Throughput values

g_bearer_tp_kbps	
8,511.991	0

TOP 10 values

Top 10 Tcp values

total_tcp_retra	insvolbytes_
	2,337,381
	2,337,275
	2,337,055
	2,336,913
	2,336,907
	2,336,865.0234
	2,336,605
	2,336,553
	2,336,367.0234
	2,336,229

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Top 10 rtt values

	avg_rtt_ms
0	125
1	125
2	125
3	125
4	125
5	125
6	125
7	125
8	125
9	125

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Top 10 throughput values

	avg_bearer_tp_kbps
0	37,540.4286
1	37,539.4286
2	37,538
3	37,537.4286
4	37,535
5	37,533
6	37,532.4286
7	37,531.4286
8	37,531.4286
9	37,531

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Bottom 10 values

Bottom 10 Tcp values

Bottom 10 rtt values

Bottom 10 Throughput values

	total_tcp_retransvolbytes_
0	817,031
1	817,121
2	817,496
3	817,584
4	817,588
5	817,744
6	817,801
7	817,839
8	817,855
9	817,893

	avg_rtt_ms
0	0
1	2
2	.4
3	5
4	6
5	7
6	8
7	9
8	10
9	11

arer_tp_kbps	avg_
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

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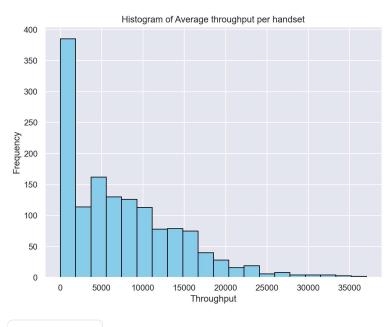
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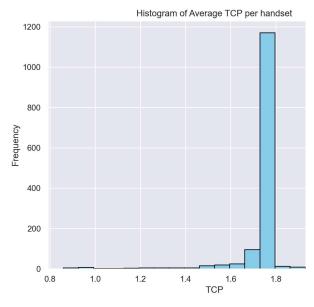
Distribution for Average TCP per handset

Distribution plot

Dist. of Avg. throughput per handset

Histogram





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Observation

distribution is right skewed ,This means that there are more handset owners who have below average throughput. There are handset owners with no throughput

Observation

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Histogram

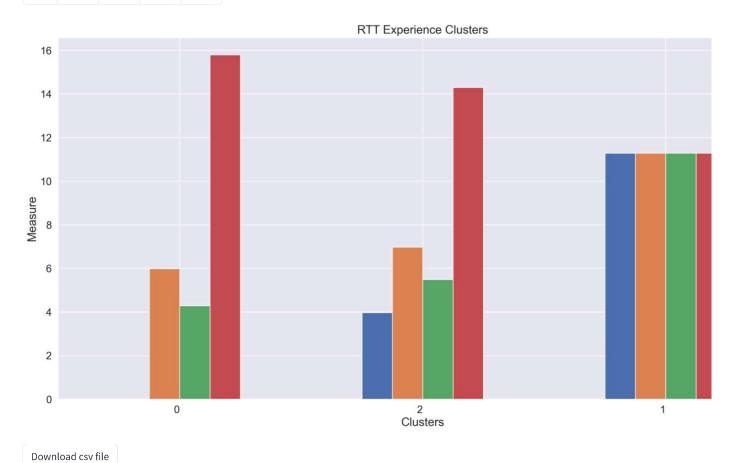
distribution is left skewed ,This means that there are handset owners who have above average TCP. There owners with no throughput

Group by Clusters

Find minimum, maximum, average and total non-normalized metrics for each clusters

RTT Experience

	min	max	mean	sum
0		5.9784	4.2785	15.793
2	3.9703	6.9679	5.487	14.2971
1	11.2753	11.2753	11.2753	11.2753

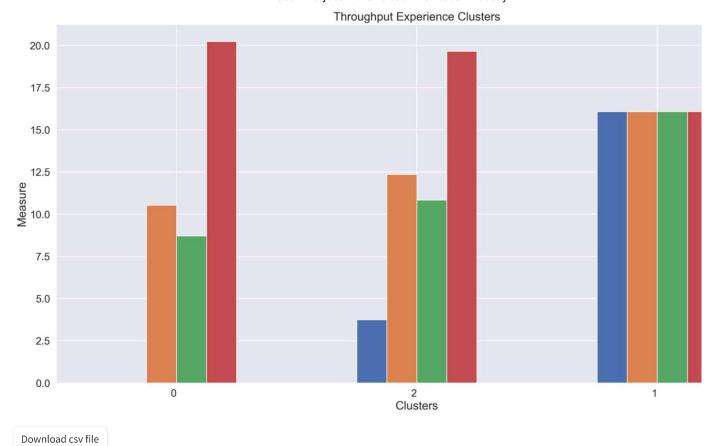


Observation

average customers in clusters 0 have better RTT expereince than other clusters, Customers in cluster 1 on average have the experience

Throughput Experience

	min	max	mean	sum
0		10.5332	8.7133	20.2278
2	3.7377	12.3525	10.8322	19.6422
1	16.0704	16.0704	16.0704	16.0704

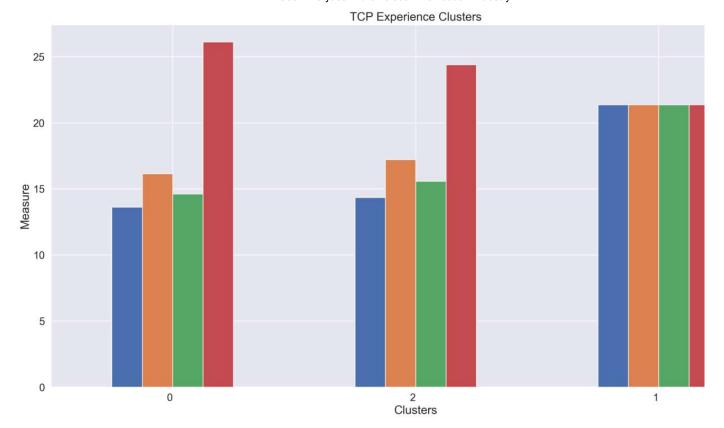


Observation

average customers in cluster 0 have better Throughput expereince than other clusters ,Customers in cluster 1 on average lowest Throughput experience

TCP Experience

	min	max	mean	sum
0	13.6134	16.1408	14.6079	26.1224
2	14.348	17.2181	15.5829	24.3929
1	21.3584	21.3584	21.3584	21.3584



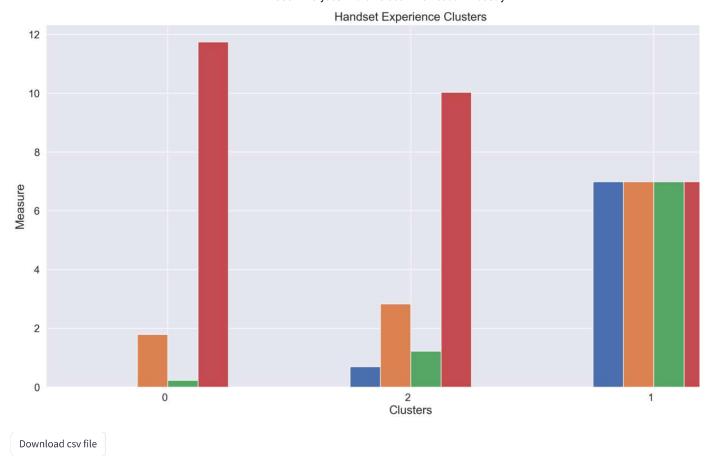
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Observation

average customers in clusters 0 have better TCP Transmission expereince than other clusters, Customers in cluster 1 on av the lowest TCP Transmission experience

Handset Experience

	min	max	mean	sum
0	0	1.7918	0.2314	11.7459
2	0.6931	2.8332	1.2194	10.0294
1	6.9884	6.9884	6.9884	6.9884



Observation

average customers in clusters 0 have better Handset expereince than other clusters, There is a uniform distribution Custom 1 on average have the lowest Handset experience