

		Model	Company	Color	\
0		5PLUS 5PHP28 Wired without Mic Headset	5PLUS	Red	
1	A R Wireless compatible with Headset Bluetooth...		A R	Red	
2	Aerizo Wireless Touch R100 Earbuds (Black) Blu...		Aerizo	Black	
3	Allmusic powerful driven bass with dynamic bea...		Allmusic	Multicolor	
4	Allmusic OPP.O Ultra HD Sound Premium Bass Spo...		Allmusic	Black	

	Type	Average Rating	Number of Ratings	Selling Price	\
0	On the Ear	3.6	101	496	
1	Multicolor	3.9	35280	188	
2	True Wireless	4.0	1934	589	
3	In the Ear	4.0	15841	260	
4	In the Ear	3.8	10766	270	

	Maximum Retail Price	Discount
0	3399	2903
1	799	611
2	1298	709
3	1599	1339
4	999	729

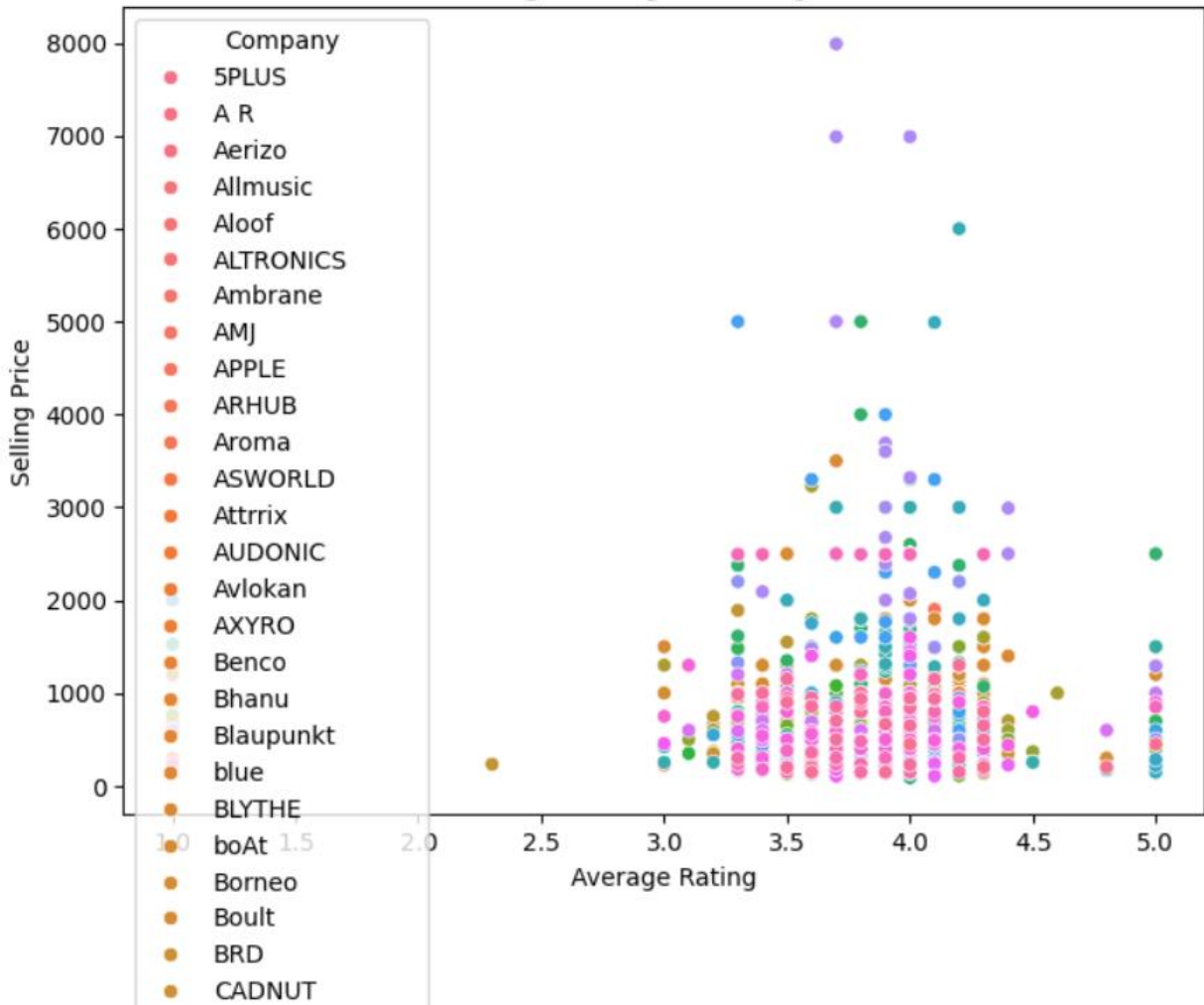
<class 'pandas.core.frame.DataFrame'>

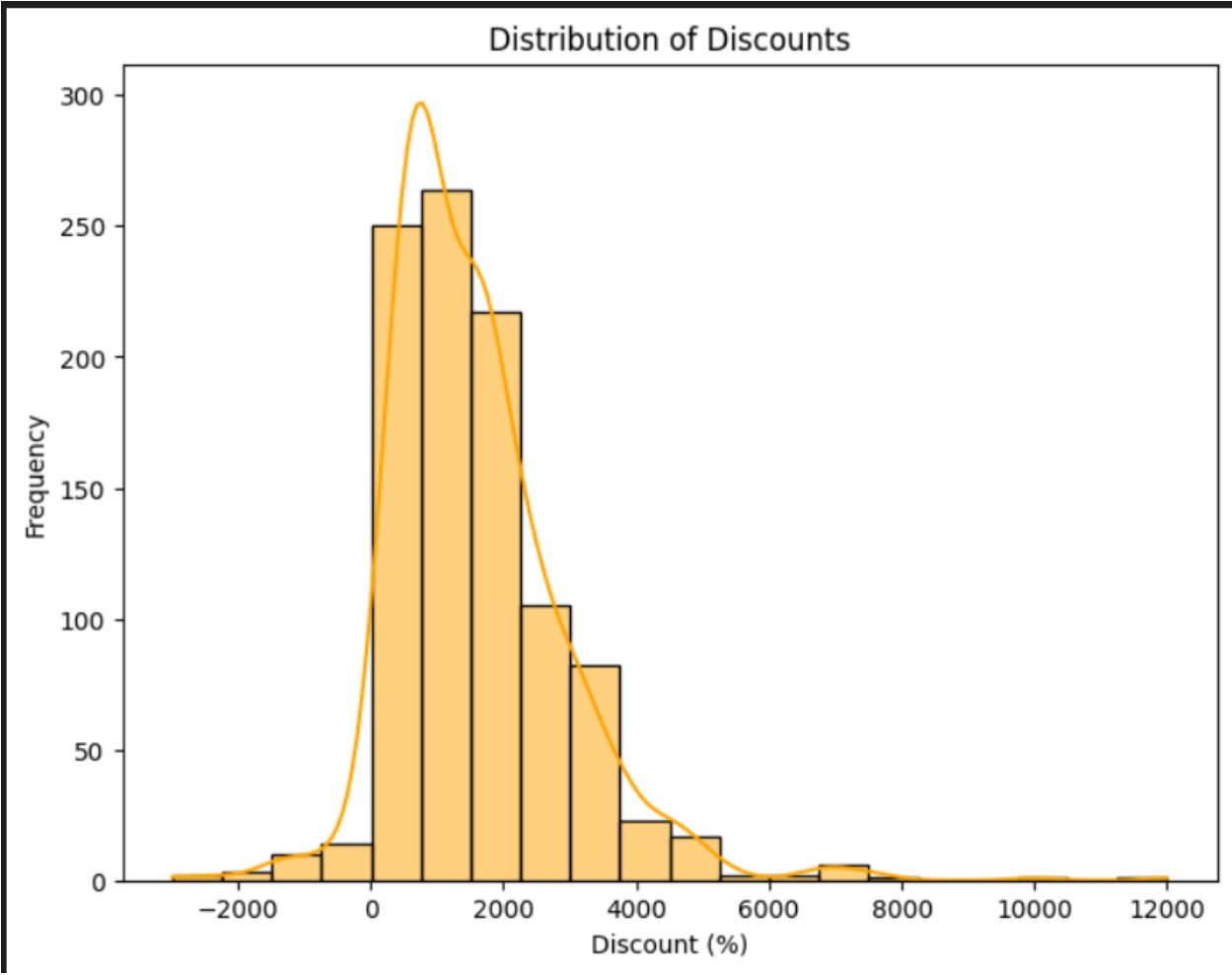
RangeIndex: 1000 entries, 0 to 999

Data columns (total 9 columns):

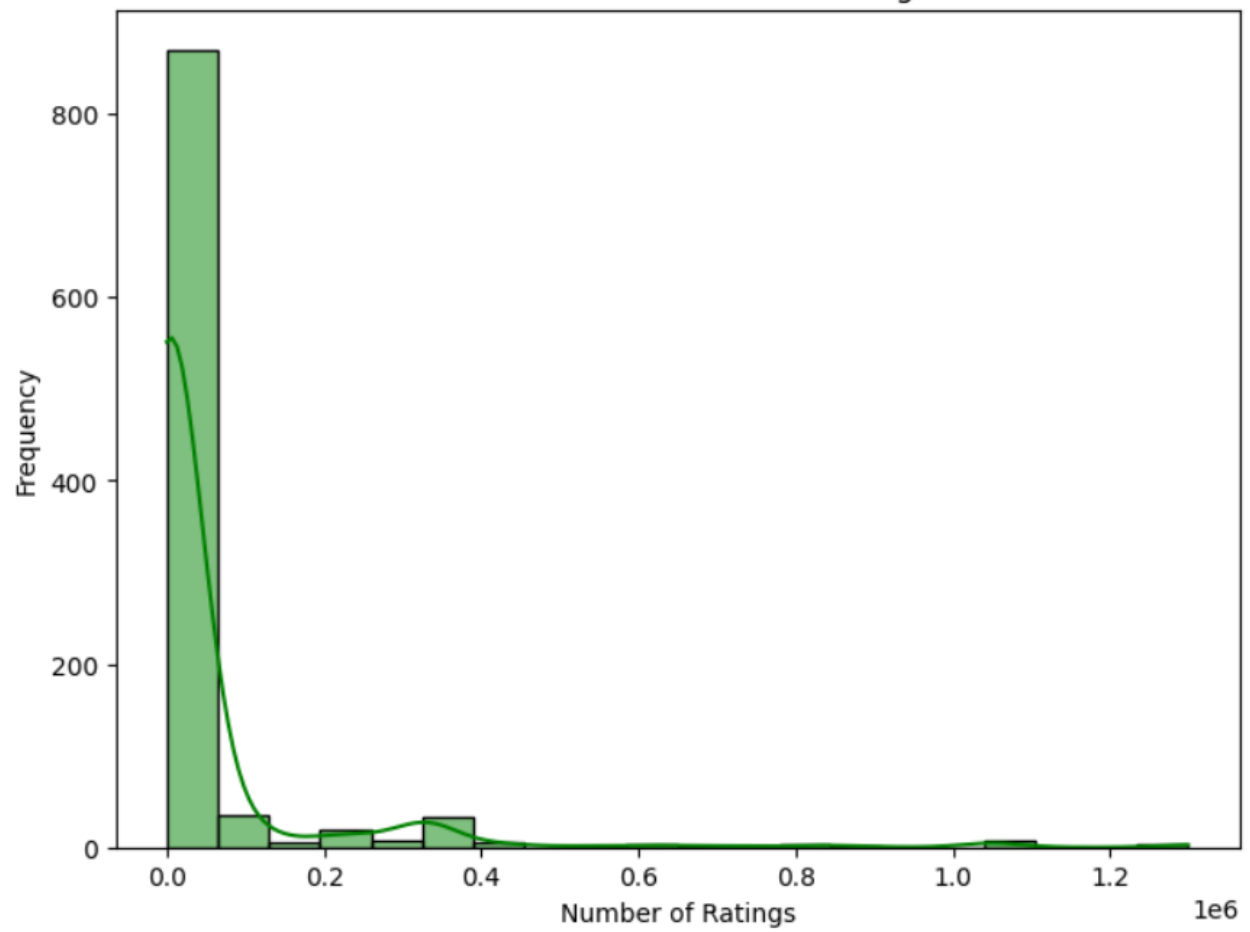
#	Column	Non-Null Count	Dtype
...			
25%	697.500000		
50%	1390.500000		
75%	2250.000000		
max	12000.000000		

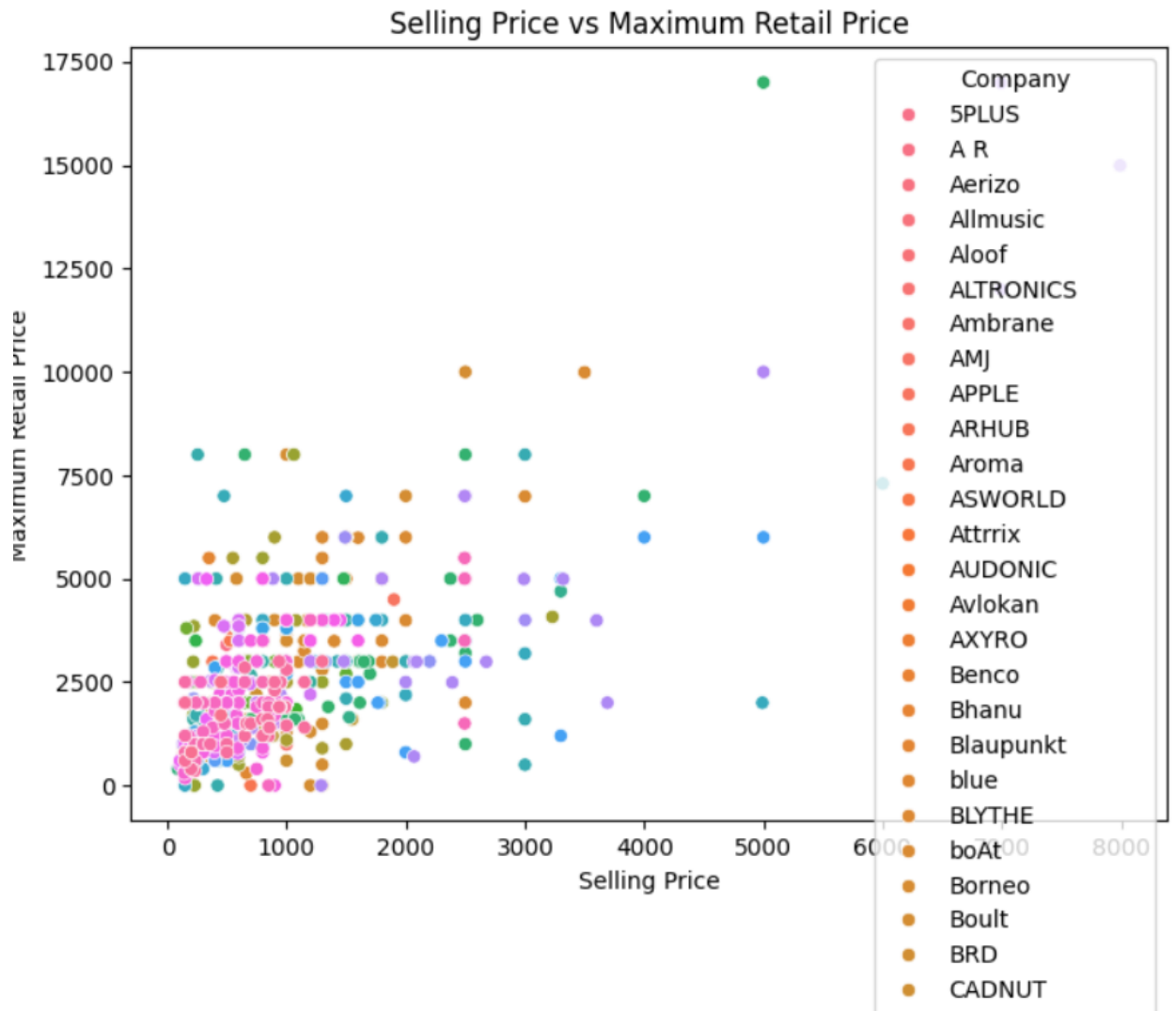
Average Rating vs Selling Price





Distribution of Number of Ratings





First few rows of the dataset:

	Model	Company	Color	\
0	5PLUS 5PHP28 Wired without Mic Headset	5PLUS	Red	
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3	Allmusic powerful driven bass with dynamic bea...	Allmusic	Multicolor	
4	Allmusic OPP.0 Ultra HD Sound Premium Bass Spo...	Allmusic	Black	

	Type	Average Rating	Number of Ratings	Selling Price	\
0	On the Ear	3.6	101	496	
1	Multicolor	3.9	35280	188	
2	True Wireless	4.0	1934	589	
3	In the Ear	4.0	15841	260	
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	Maximum Retail Price	Discount
0	3399	2903
1	799	611
2	1298	709
3	1599	1339
4	999	729

Columns in the dataset: Index(['Model', 'Company', 'Color', 'Type', 'Average Rating',
'Number of Ratings', 'Selling Price', 'Maximum Retail Price',
'Discount'], dtype=object)

Layer (type)	Output Shape	Param #
lstm (LSTM)	(None, 1, 64)	18,432
dropout (Dropout)	(None, 1, 64)	0
lstm_1 (LSTM)	(None, 32)	12,416
dropout_1 (Dropout)	(None, 32)	0
dense (Dense)	(None, 32)	1,056
dense_1 (Dense)	(None, 1)	33

Total params: 31,937 (124.75 KB)

Trainable params: 31,937 (124.75 KB)

Non-trainable params: 0 (0.00 B)

	Model	Company	Color \
0	5PLUS 5PHP28 Wired without Mic Headset	5PLUS	Red
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3	Allmusic powerful driven bass with dynamic bea...	Allmusic	Multicolor
4	Allmusic OPP.O Ultra HD Sound Premium Bass Spo...	Allmusic	Black

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4	In the Ear	3.8	10766	270

	Maximum Retail Price	Discount	label
0	3399	2903	negative
1	799	611	negative
2	1298	709	positive
3	1599	1339	positive
4	999	729	negative

	Model	Company	Color \
0	5PLUS 5PHP28 Wired without Mic Headset	5PLUS	Red
1	A R Wireless compatible with Headset Bluetooth...	A R	Red
2	Aerizo Wireless Touch R100 Earbuds (Black) Blu...	Aerizo	Black
3	Allmusic powerful driven bass with dynamic bea...	Allmusic	Multicolor
4	Allmusic OPP.O Ultra HD Sound Premium Bass Spo...	Allmusic	Black

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	Maximum Retail Price	Discount
0	3399	2903
1	799	611
2	1298	709
3	1599	1339
4	999	729

Test Accuracy: 64.50%

	precision	recall	f1-score	support
negative	0.62	0.96	0.75	112
neutral	0.00	0.00	0.00	3
...				
accuracy			0.65	200
macro avg	0.49	0.40	0.38	200
weighted avg	0.70	0.65	0.58	200