DATA ANALYSIS REPORT

on

SMART TV BUYING GUIDE

Presented by

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Project Description

This analysis was done to analysis the different products, operating systems, prices, specifications and ratings of various Smart TV brands.

Source

The dataset was gotten from Kaggle.
https://www.kaggle.com/datasets/mdwaquarazam/television-dataset-2022

Data Design

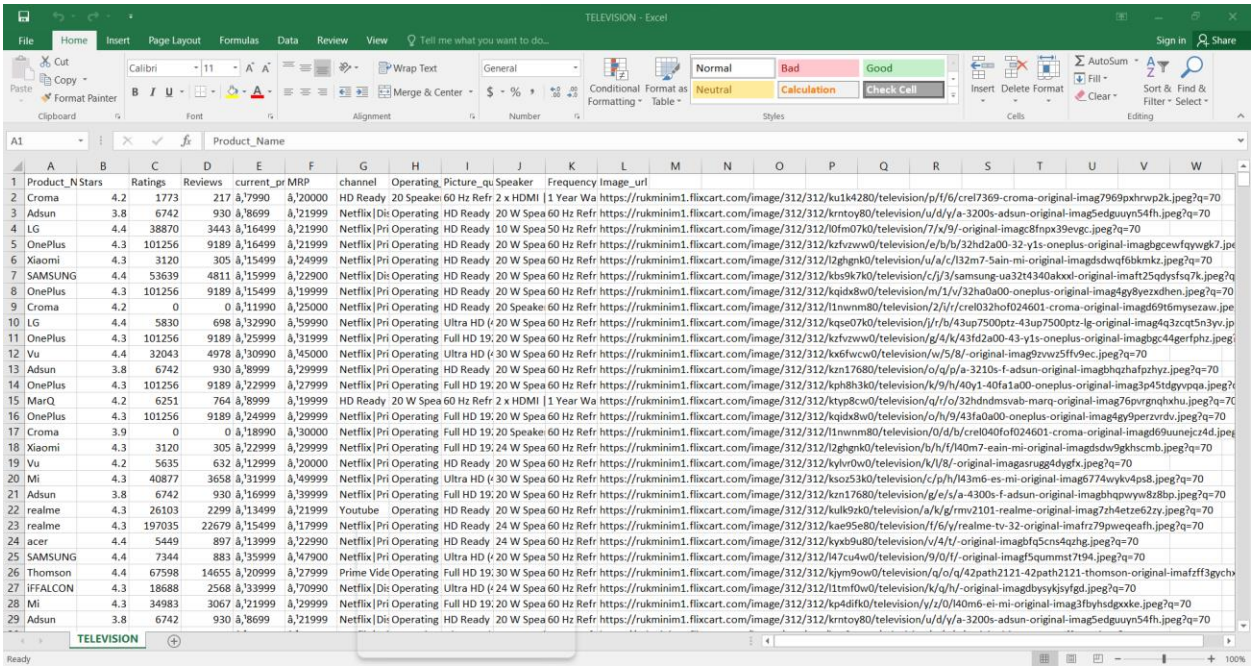
Data Cleaning

I used Excel to clean the dataset. In cleaning this dataset, I removed over 200 duplicates, formatted the headers, I converted the current price and manufacturer price from Indian Rupees to the US dollars because the it's the world reserve currency and to do that, I had to use the RIGHT formula and converted text to numbers and rightfully placed each data in its rightful heading.

Data Visualization

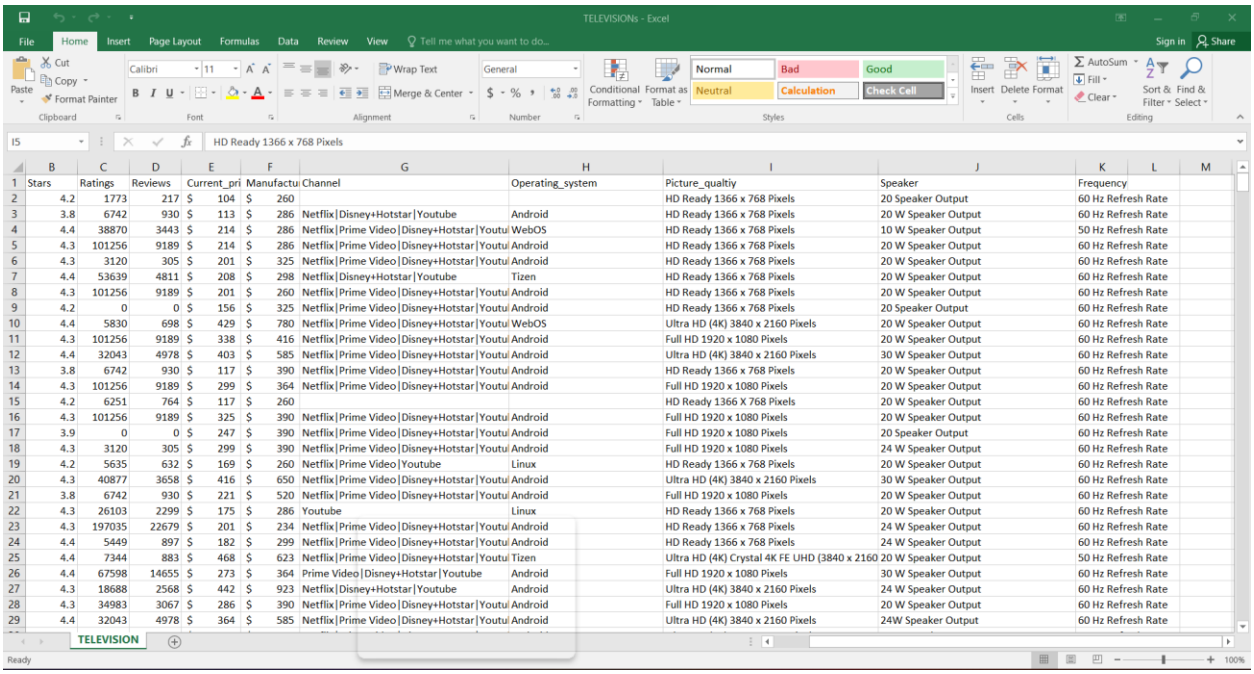
I used Tableau Public to visualize key indicators that support the project description; top five Smart TVs and Operating System by Price, top five rated smart TVs by Operating System, the various operating systems.

DATA SET BEFORE CLEANING



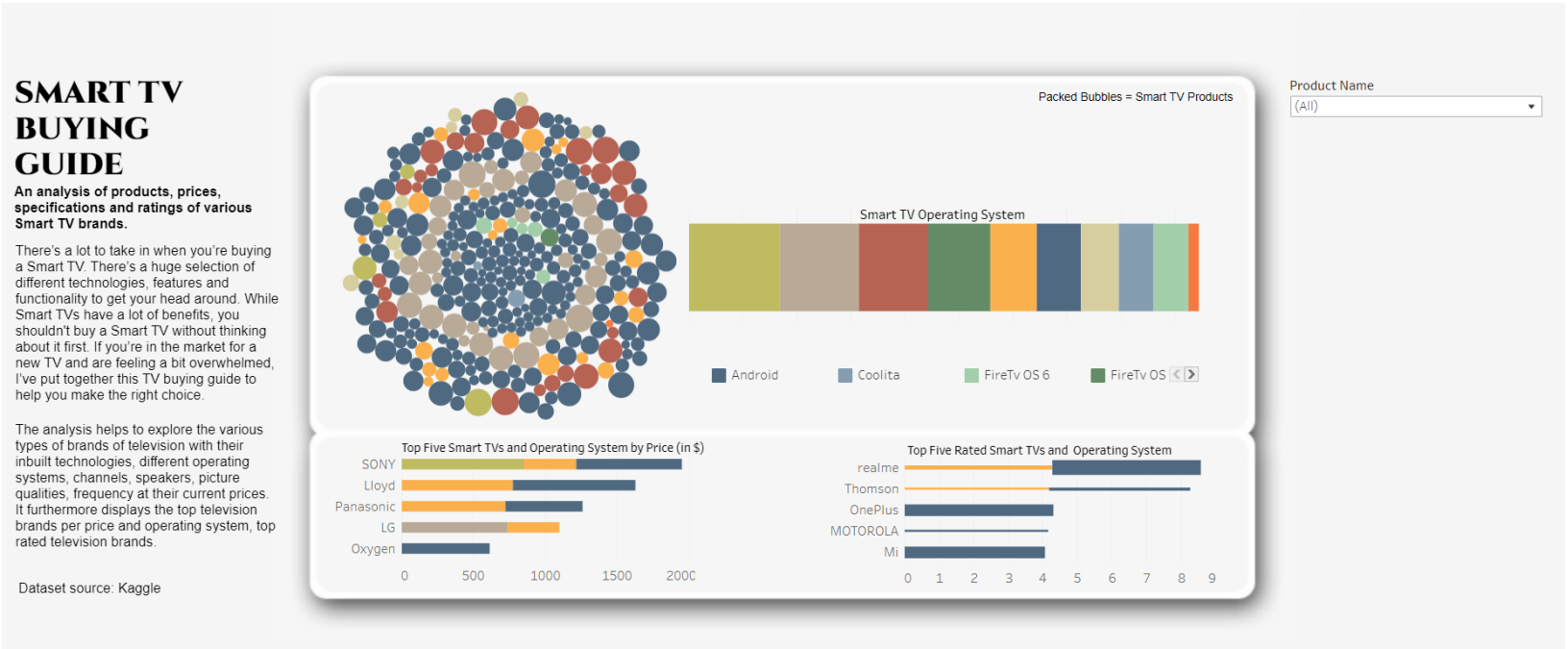
Product_N	Stars	Ratings	Reviews	current_pr	MRP	channel	Operating	Picture_qu	Speaker	Frequency	Image_url
Croma	4.2	1773	217	â‚¹7990	â‚¹20000	HD Ready	20 Speake	60 Hz Refr	2 x HDMI	1 Year Wa	https://rukminim1.flixcart.com/image/312/312/ku1k4280/television/p/f/6/crel7369-croma-original-imag7969pxhrwp2k.jpeg?q=70
Adsun	3.8	6742	930	â‚¹8699	â‚¹21999	Netflix	Dis Operating	HD Ready	20 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/krntoy80/television/u/d/y/a-3200s-adsun-original-imag5edguuyn54fh.jpeg?q=70
LG	4.4	38870	3443	â‚¹16499	â‚¹21990	Netflix	Pri Operating	HD Ready	10 W Spea	50 Hz Refr	https://rukminim1.flixcart.com/image/312/312/l0fm07k0/television/7/x/9/-original-imagc8fnpx39evgc.jpeg?q=70
OnePlus	4.3	101256	9189	â‚¹16499	â‚¹21999	Netflix	Pri Operating	HD Ready	20 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/kzfvzww0/television/e/b/b/32hd2a00-32-y1s-oneplus-original-imagbgcewfqywgk7.jpe
Xiaomi	4.3	3120	305	â‚¹15499	â‚¹24999	Netflix	Pri Operating	HD Ready	20 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/l2ghgnk0/television/u/a/c/l32m7-5ain-mi-original-imagdsdwqf6bkmkz.jpeg?q=70
SAMSUNG	4.4	53639	4811	â‚¹15999	â‚¹22900	Netflix	Dis Operating	HD Ready	20 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/kbs9k7k0/television/c/j/3/samsung-ua32t4340akxxl-original-imaft25qdysfsq7k.jpeg?q
OnePlus	4.3	101256	9189	â‚¹15499	â‚¹19999	Netflix	Pri Operating	HD Ready	20 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/kqidx8w0/television/m/1/v/32ha0a00-oneplus-original-imag4gy8yezxdhen.jpeg?q=70
Croma	4.2	0	0	â‚¹11990	â‚¹25000	Netflix	Pri Operating	HD Ready	20 Speake	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/l1nwnm80/television/2/i/r/crel032hof024601-croma-original-imagd69t6mysezaw.jpe
LG	4.4	5830	698	â‚¹32990	â‚¹59990	Netflix	Pri Operating	Ultra HD (4	20 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/kqse07k0/television/j/r/b/43up7500ptz-43up7500ptz-lg-original-imag4q3zcqt5n3yv.jp
OnePlus	4.3	101256	9189	â‚¹25999	â‚¹31999	Netflix	Pri Operating	Full HD 19	20 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/kzfvzww0/television/g/4/k/43fd2a00-43-y1s-oneplus-original-imagbgc44gerfphz.jpeg
Vu	4.4	32043	4978	â‚¹30990	â‚¹45000	Netflix	Pri Operating	Ultra HD (4	30 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/kx6fwcw0/television/w/5/8/-original-imag9zvwz5ffv9ec.jpeg?q=70
Adsun	3.8	6742	930	â‚¹8999	â‚¹29999	Netflix	Pri Operating	HD Ready	20 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/kzn17680/television/o/q/p/a-3210s-f-adsun-original-imagbhqzhafpzhyz.jpeg?q=70
OnePlus	4.3	101256	9189	â‚¹22999	â‚¹27999	Netflix	Pri Operating	Full HD 19	20 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/kph8h3k0/television/k/9/h/40y1-40fa1a00-oneplus-original-imag3p45tdgyvpqa.jpeg?q
MarQ	4.2	6251	764	â‚¹8999	â‚¹19999	HD Ready	20 W Spea	60 Hz Refr	2 x HDMI	1 Year Wa	https://rukminim1.flixcart.com/image/312/312/ktyp8cw0/television/q/r/o/32hdndmsvab-marq-original-imag76pvrgnqhxhu.jpeg?q=70
OnePlus	4.3	101256	9189	â‚¹24999	â‚¹29999	Netflix	Pri Operating	Full HD 19	20 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/kqidx8w0/television/o/h/9/43fa0a00-oneplus-original-imag4gy9perzvrdv.jpeg?q=70
Croma	3.9	0	0	â‚¹18990	â‚¹30000	Netflix	Pri Operating	Full HD 19	20 Speake	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/l1nwnm80/television/0/d/b/crel040fof024601-croma-original-imagd69uunejcz4d.jpeg
Xiaomi	4.3	3120	305	â‚¹22999	â‚¹29999	Netflix	Pri Operating	Full HD 19	24 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/l2ghgnk0/television/b/h/f/l40m7-eain-mi-original-imagdsdw9gkhscmb.jpeg?q=70
Vu	4.2	5635	632	â‚¹12999	â‚¹20000	Netflix	Pri Operating	HD Ready	20 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/kylvr0w0/television/k/l/8/-original-imagasrugg4dygfx.jpeg?q=70
Mi	4.3	40877	3658	â‚¹31999	â‚¹49999	Netflix	Pri Operating	Ultra HD (4	30 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/ksoz53k0/television/c/p/h/l43m6-es-mi-original-imag6774wykv4ps8.jpeg?q=70
Adsun	3.8	6742	930	â‚¹16999	â‚¹39999	Netflix	Pri Operating	Full HD 19	20 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/kzn17680/television/g/e/s/a-4300s-f-adsun-original-imagbhqpwyw8z8bp.jpeg?q=70
realme	4.3	26103	2299	â‚¹13499	â‚¹21999	Youtube	Operating	HD Ready	20 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/kulk9zk0/television/a/k/g/rmv2101-realme-original-imag7zh4etze62zy.jpeg?q=70
realme	4.3	197035	22679	â‚¹15499	â‚¹17999	Netflix	Pri Operating	HD Ready	24 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/kae95e80/television/f/6/y/realme-tv-32-original-imafrz79pweqeafh.jpeg?q=70
acer	4.4	5449	897	â‚¹13999	â‚¹22990	Netflix	Pri Operating	HD Ready	24 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/kyxb9u80/television/v/4/t/-original-imagbfq5cns4qzhg.jpeg?q=70
SAMSUNG	4.4	7344	883	â‚¹35999	â‚¹47900	Netflix	Pri Operating	Ultra HD (4	20 W Spea	50 Hz Refr	https://rukminim1.flixcart.com/image/312/312/l47cu4w0/television/9/0/f/-original-imagf5qummst7t94.jpeg?q=70
Thomson	4.4	67598	14655	â‚¹20999	â‚¹27999	Prime Vide	Operating	Full HD 19	30 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/kjym9ow0/television/q/o/q/42path2121-42path2121-thomson-original-imafzff3gychx
iFFALCON	4.3	18688	2568	â‚¹33999	â‚¹70990	Netflix	Dis Operating	Ultra HD (4	24 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/l1tmf0w0/television/k/q/h/-original-imagdbysykjsyfgd.jpeg?q=70
Mi	4.3	34983	3067	â‚¹21999	â‚¹29999	Netflix	Pri Operating	Full HD 19	20 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/kp4difk0/television/y/z/0/l40m6-ei-mi-original-imag3fbyhsdgxxke.jpeg?q=70
Adsun	3.8	6742	930	â‚¹8699	â‚¹21999	Netflix	Dis Operating	HD Ready	20 W Spea	60 Hz Refr	https://rukminim1.flixcart.com/image/312/312/krntoy80/television/u/d/y/a-3200s-adsun-original-imag5edguuyn54fh.jpeg?q=70

DATASET AFTER CELANING



Stars	Ratings	Reviews	Current_pri	Manufactu	Channel	Operating_system	Picture_qualtiy	Speaker	Frequency
4.2	1773	217	$ 104	$ 260			HD Ready 1366 x 768 Pixels	20 Speaker Output	60 Hz Refresh Rate
3.8	6742	930	$ 113	$ 286	Netflix|Disney+Hotstar|Youtube	Android	HD Ready 1366 x 768 Pixels	20 W Speaker Output	60 Hz Refresh Rate
4.4	38870	3443	$ 214	$ 286	Netflix|Prime Video|Disney+Hotstar|Youtu	WebOS	HD Ready 1366 x 768 Pixels	10 W Speaker Output	50 Hz Refresh Rate
4.3	101256	9189	$ 214	$ 286	Netflix|Prime Video|Disney+Hotstar|Youtu	Android	HD Ready 1366 x 768 Pixels	20 W Speaker Output	60 Hz Refresh Rate
4.3	3120	305	$ 201	$ 325	Netflix|Prime Video|Disney+Hotstar|Youtu	Android	HD Ready 1366 x 768 Pixels	20 W Speaker Output	60 Hz Refresh Rate
4.4	53639	4811	$ 208	$ 298	Netflix|Disney+Hotstar|Youtube	Tizen	HD Ready 1366 x 768 Pixels	20 W Speaker Output	60 Hz Refresh Rate
4.3	101256	9189	$ 201	$ 260	Netflix|Prime Video|Disney+Hotstar|Youtu	Android	HD Ready 1366 x 768 Pixels	20 W Speaker Output	60 Hz Refresh Rate
4.2	0	0	$ 156	$ 325	Netflix|Prime Video|Disney+Hotstar|Youtu	Android	HD Ready 1366 x 768 Pixels	20 Speaker Output	60 Hz Refresh Rate
4.4	5830	698	$ 429	$ 780	Netflix|Prime Video|Disney+Hotstar|Youtu	WebOS	Ultra HD (4K) 3840 x 2160 Pixels	20 W Speaker Output	60 Hz Refresh Rate
4.3	101256	9189	$ 338	$ 416	Netflix|Prime Video|Disney+Hotstar|Youtu	Android	Full HD 1920 x 1080 Pixels	20 W Speaker Output	60 Hz Refresh Rate
4.4	32043	4978	$ 403	$ 585	Netflix|Prime Video|Disney+Hotstar|Youtu	Android	Ultra HD (4K) 3840 x 2160 Pixels	30 W Speaker Output	60 Hz Refresh Rate
3.8	6742	930	$ 117	$ 390	Netflix|Prime Video|Disney+Hotstar|Youtu	Android	HD Ready 1366 x 768 Pixels	20 W Speaker Output	60 Hz Refresh Rate
4.3	101256	9189	$ 299	$ 364	Netflix|Prime Video|Disney+Hotstar|Youtu	Android	Full HD 1920 x 1080 Pixels	20 W Speaker Output	60 Hz Refresh Rate
4.2	6251	764	$ 117	$ 260			HD Ready 1366 X 768 Pixels	20 W Speaker Output	60 Hz Refresh Rate
4.3	101256	9189	$ 325	$ 390	Netflix|Prime Video|Disney+Hotstar|Youtu	Android	Full HD 1920 x 1080 Pixels	20 W Speaker Output	60 Hz Refresh Rate
3.9	0	0	$ 247	$ 390	Netflix|Prime Video|Disney+Hotstar|Youtu	Android	Full HD 1920 x 1080 Pixels	20 Speaker Output	60 Hz Refresh Rate
4.3	3120	305	$ 299	$ 390	Netflix|Prime Video|Disney+Hotstar|Youtu	Android	Full HD 1920 x 1080 Pixels	24 W Speaker Output	60 Hz Refresh Rate
4.2	5635	632	$ 169	$ 260	Netflix|Prime Video|Youtube	Linux	HD Ready 1366 x 768 Pixels	20 W Speaker Output	60 Hz Refresh Rate
4.3	40877	3658	$ 416	$ 650	Netflix|Prime Video|Disney+Hotstar|Youtu	Android	Ultra HD (4K) 3840 x 2160 Pixels	30 W Speaker Output	60 Hz Refresh Rate
3.8	6742	930	$ 221	$ 520	Netflix|Prime Video|Disney+Hotstar|Youtu	Android	Full HD 1920 x 1080 Pixels	20 W Speaker Output	60 Hz Refresh Rate
4.3	26103	2299	$ 175	$ 286	Youtube	Linux	HD Ready 1366 x 768 Pixels	20 W Speaker Output	60 Hz Refresh Rate
4.3	197035	22679	$ 201	$ 234	Netflix|Prime Video|Disney+Hotstar|Youtu	Android	HD Ready 1366 x 768 Pixels	24 W Speaker Output	60 Hz Refresh Rate
4.4	5449	897	$ 182	$ 299	Netflix|Prime Video|Disney+Hotstar|Youtu	Android	HD Ready 1366 x 768 Pixels	24 W Speaker Output	60 Hz Refresh Rate
4.4	7344	883	$ 468	$ 623	Netflix|Prime Video|Disney+Hotstar|Youtu	Tizen	Ultra HD (4K) Crystal 4K FE UHD (3840 x 2160	20 W Speaker Output	50 Hz Refresh Rate
4.4	67598	14655	$ 273	$ 364	Prime Video|Disney+Hotstar|Youtube	Android	Full HD 1920 x 1080 Pixels	30 W Speaker Output	60 Hz Refresh Rate
4.3	18688	2568	$ 442	$ 923	Netflix|Disney+Hotstar|Youtube	Android	Ultra HD (4K) 3840 x 2160 Pixels	24 W Speaker Output	60 Hz Refresh Rate
4.3	34983	3067	$ 286	$ 390	Netflix|Prime Video|Disney+Hotstar|Youtu	Android	Full HD 1920 x 1080 Pixels	20 W Speaker Output	60 Hz Refresh Rate
4.4	32043	4978	$ 364	$ 585	Netflix|Prime Video|Disney+Hotstar|Youtu	Android	Ultra HD (4K) 3840 x 2160 Pixels	24W Speaker Output	60 Hz Refresh Rate

Findings from Data



Analysis of the Data

The analysis helps to explore the various types of brands of television with their inbuilt technologies, different operating systems, channels, speakers, picture qualities, frequency at their current prices. It furthermore displays the top television brands per price and operating system, top rated television brands.

A onetime glance at the dashboard reveals that the Android Operating system is the most popular for the Smart TV brands even though they are not the cheapest. SONY TV tops the charts for expensive Smart TV's and Operating systems. A look at the top rated Smart TV brands reveals that the Smart TV brands built with Android Operating System had highest ratings as opposed to the others.

Conclusion

The Android operating system Smart TVs are the most post popular and from the ratings, it goes to show the most people go for Android Smart TVs (Realme Smart TV in particular as it has the highest rating). For anyone considering to buy a Smart TV, I recommend for them to get a Realme Smart TV

Here is the link to the visualization: https://tabsoft.co/3zeu8hS

Note

- To further guide you on the how to, select a product at the top right section of the dashboard and the packed bubbles will reveal;
- the refresh rate, type of speakers, picture quality, Frequency, channel and the current price
- hopefully guide you in getting your Smart TV.