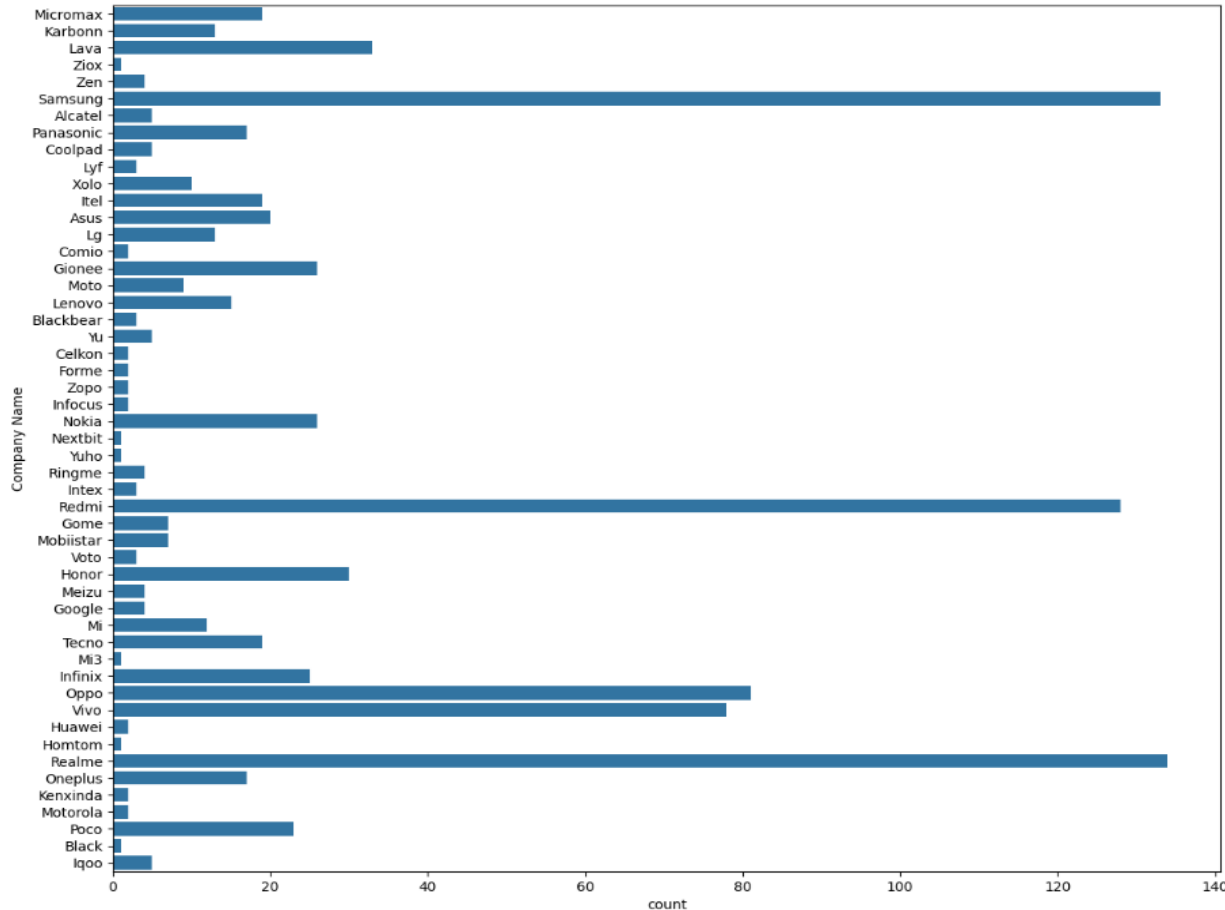


Univariate Analysis

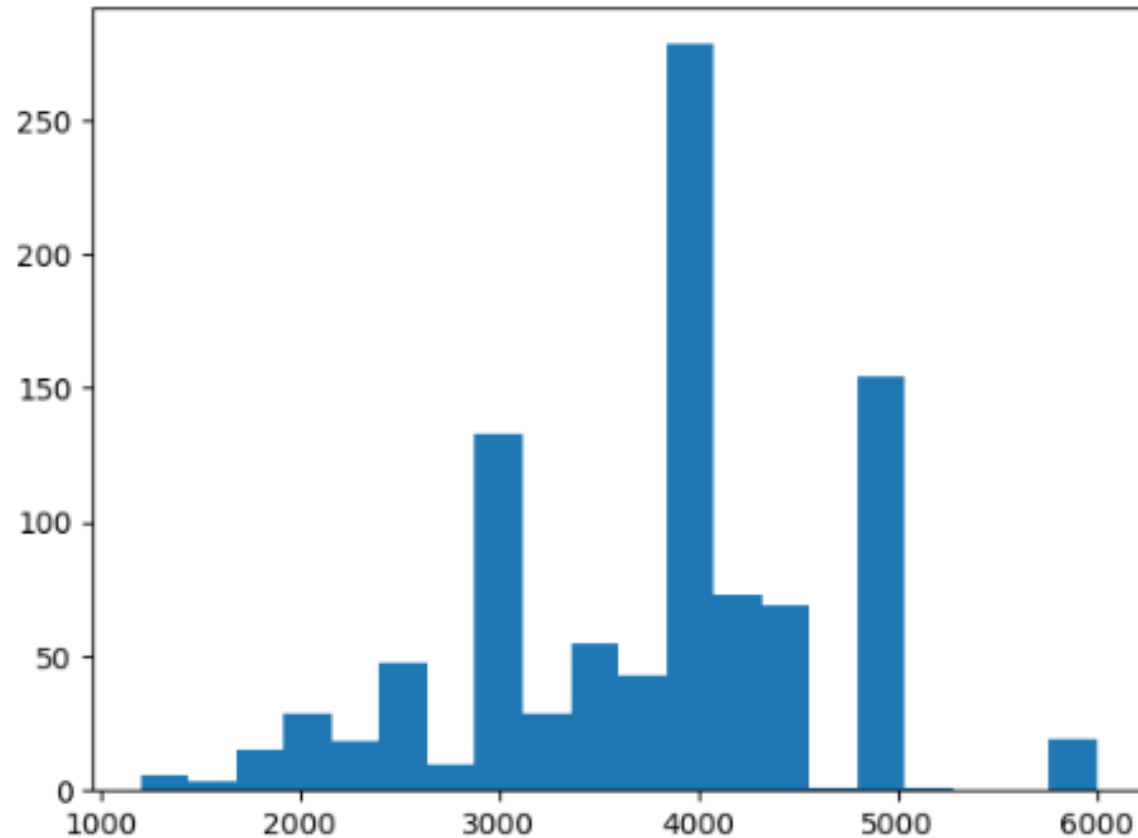
By Raghav Tyagi

Univariate Analysis



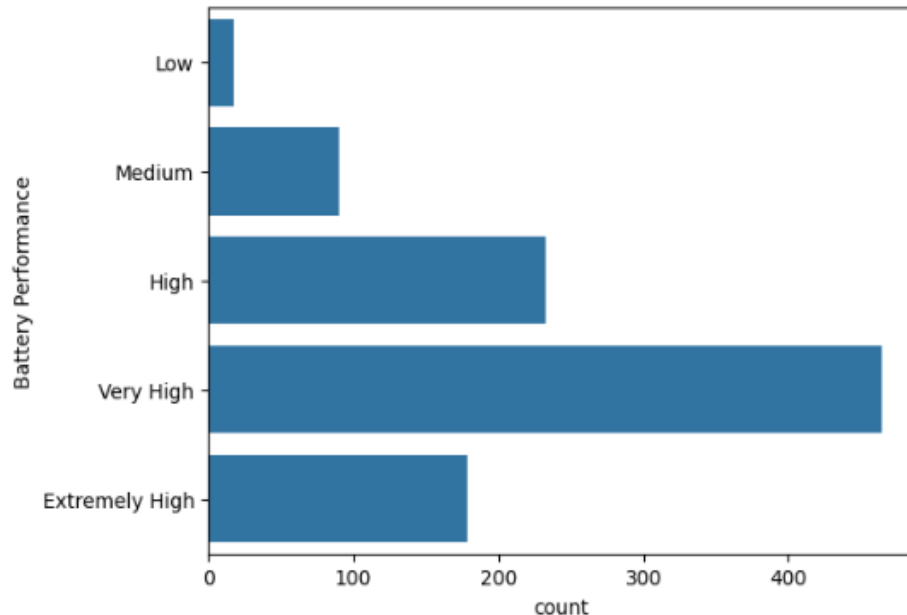
- Samsung, Redmi & Realme have been the most prominent brands among brands
- Oppo & Vivo can also be seen as growing players in the Market

Battery Power



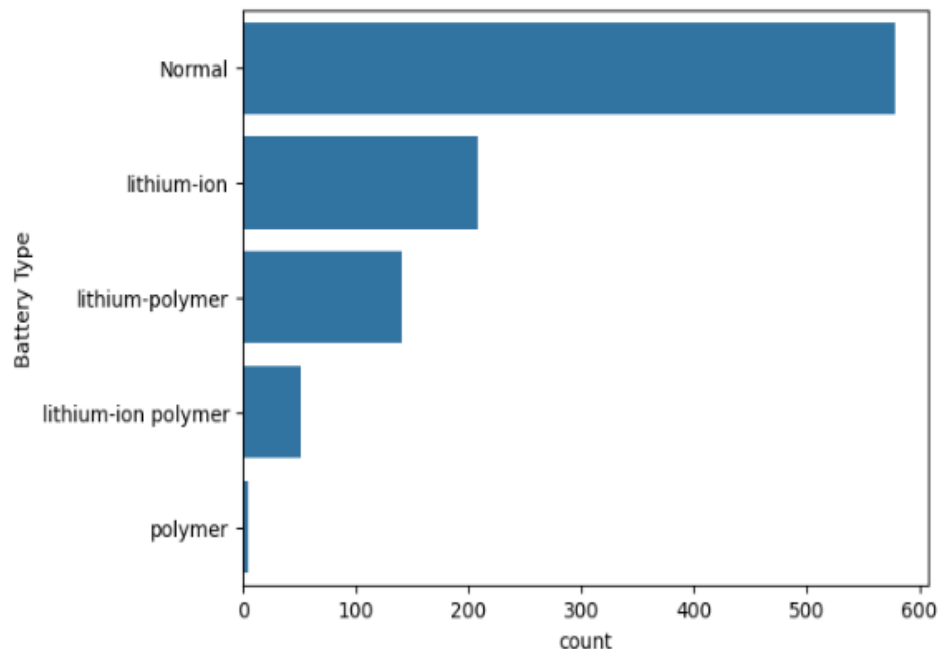
- Smart Phones with Battery power 3000 to 5000 Mah are more popular among others and were seen as more popular among devices

Battery Performance



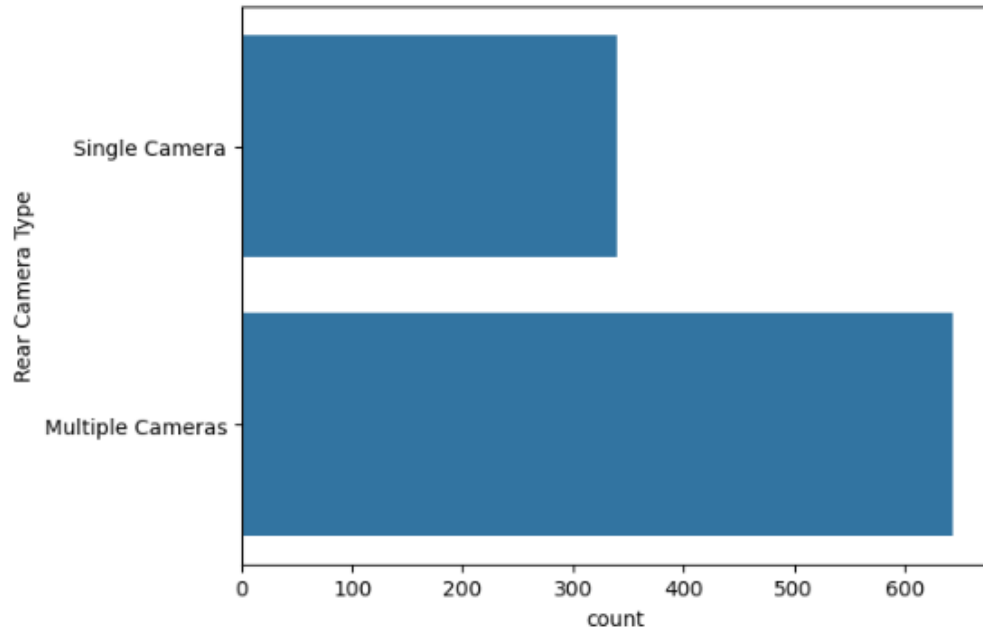
- High & Very High-Performance Batteries are more popular among devices.
- The reason for Extremely High-Performance batteries not preferred Could be Risk and Hazard from Heating Devices

Battery Types



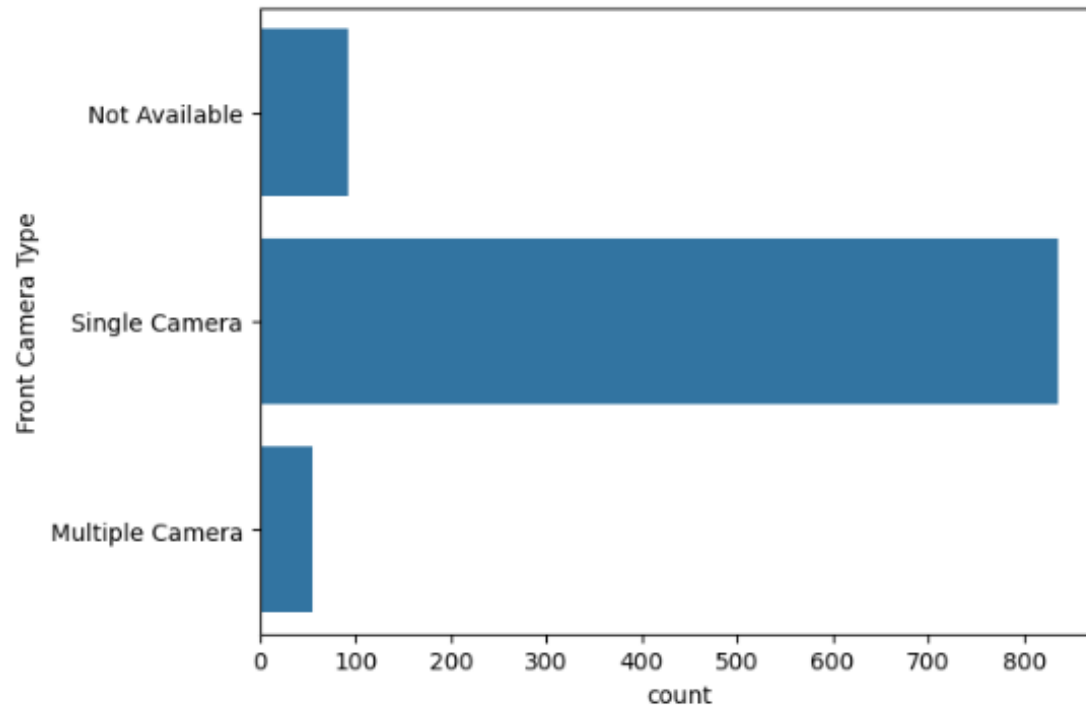
- Normal Batteries are found in most of the devices.
- Polymer batteries were found to be the least used in devices.

Rear Camera Type



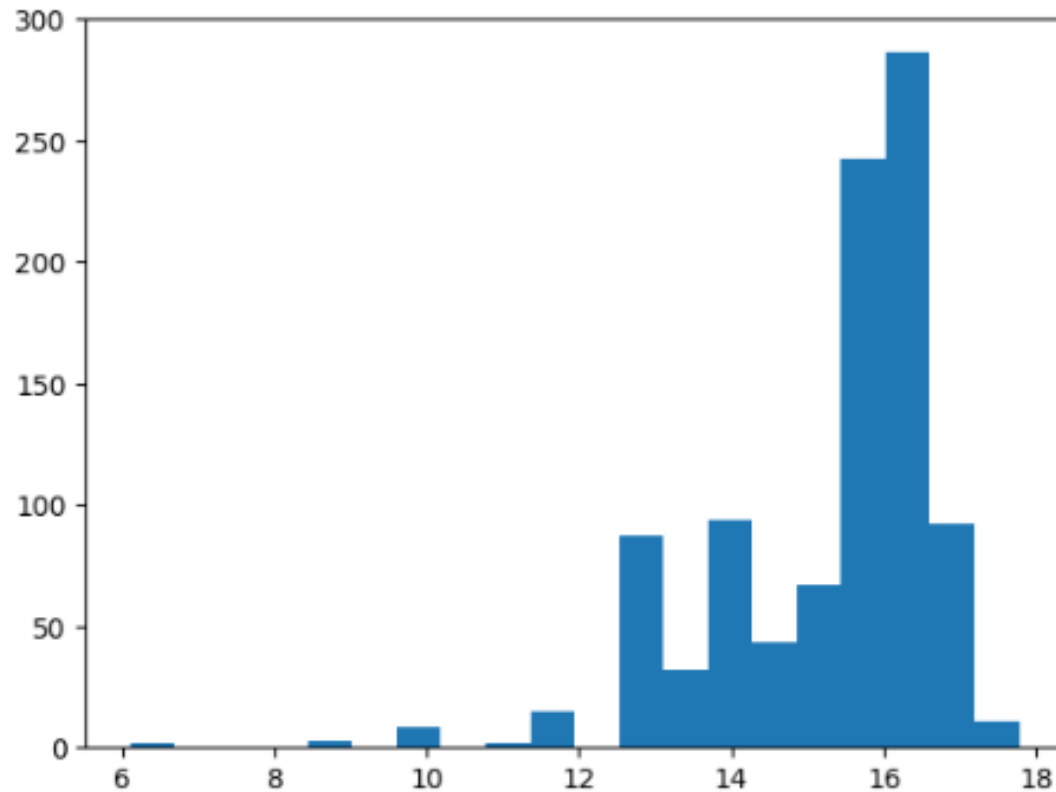
- Phones with Multiple Rear Type Cameras are found to be more popular for Capturing Images & Videos.

Front Camera Type



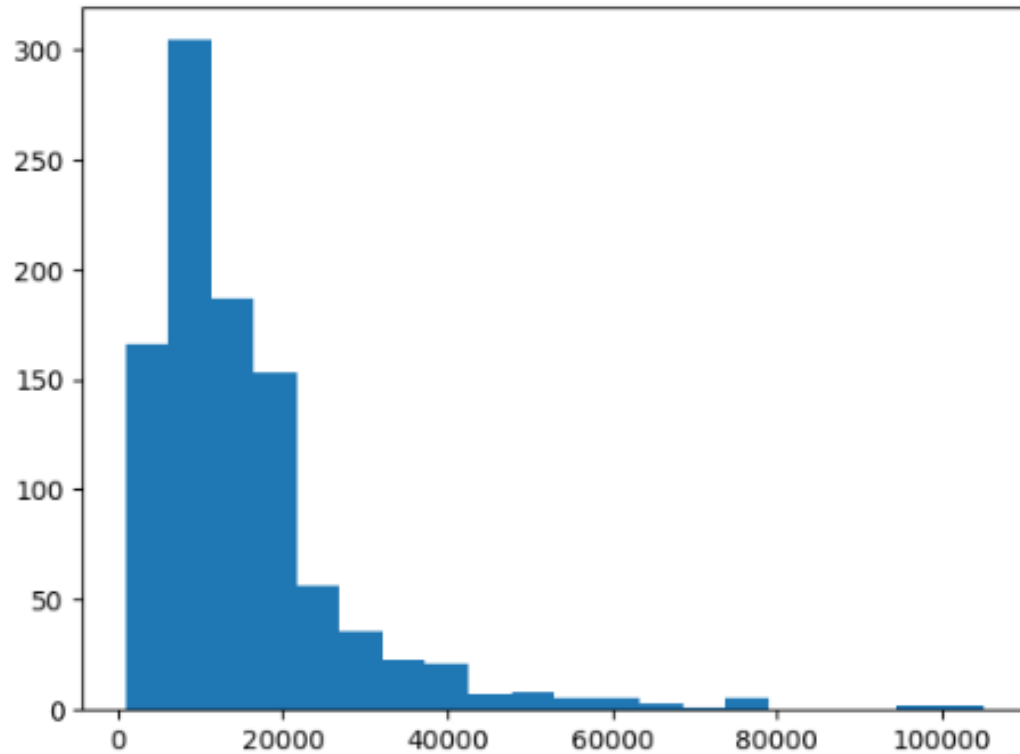
- Most of the devices were found to be equipped with a single front camera.
- And Multiple front cameras were found to be in very less number of devices

Display Size



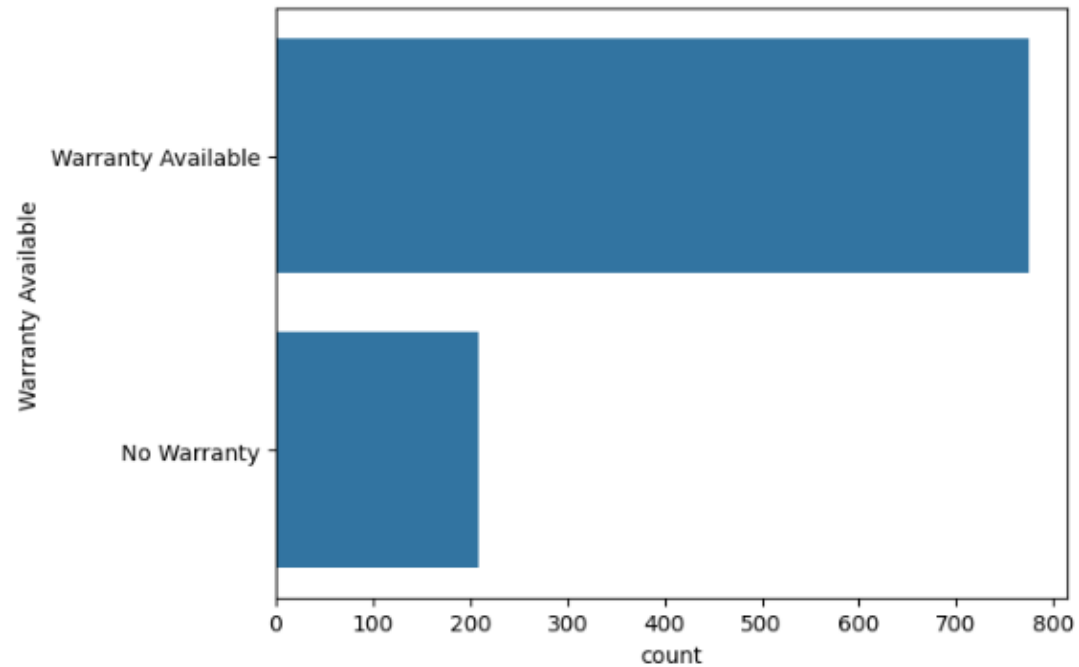
- Generally Devices with Display sizes around 15 to 16.5 inches were found to be more common in devices
- Whereas large sizes and very low display sizes were uncommon.

Prices



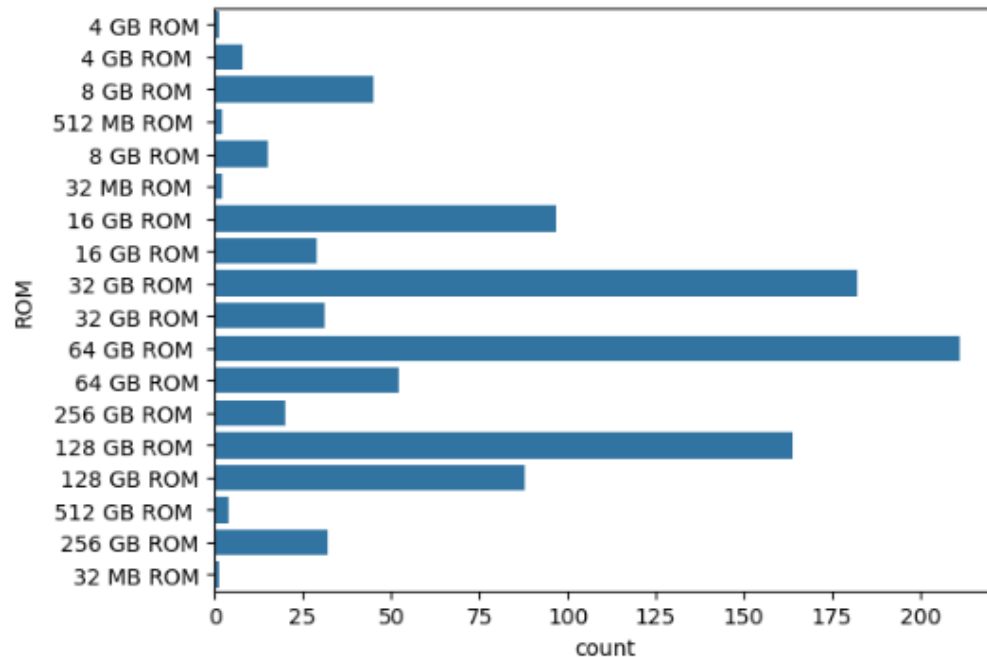
- Generally phones priced between 5000 to 15000 were most common as they are affordable.

Warranty



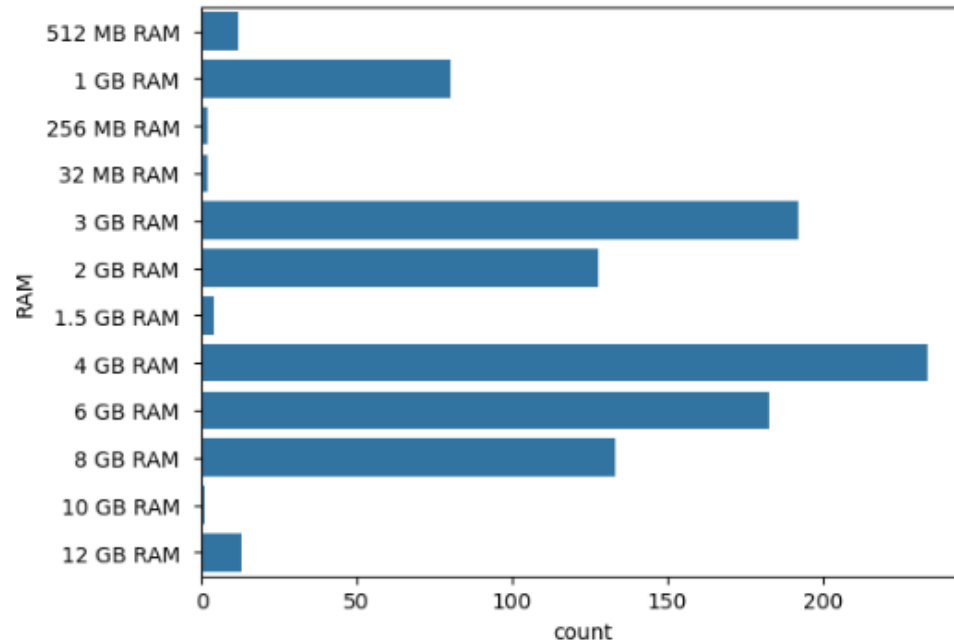
- Most of the devices had warranties available be it for an accessory or the whole device.

ROM



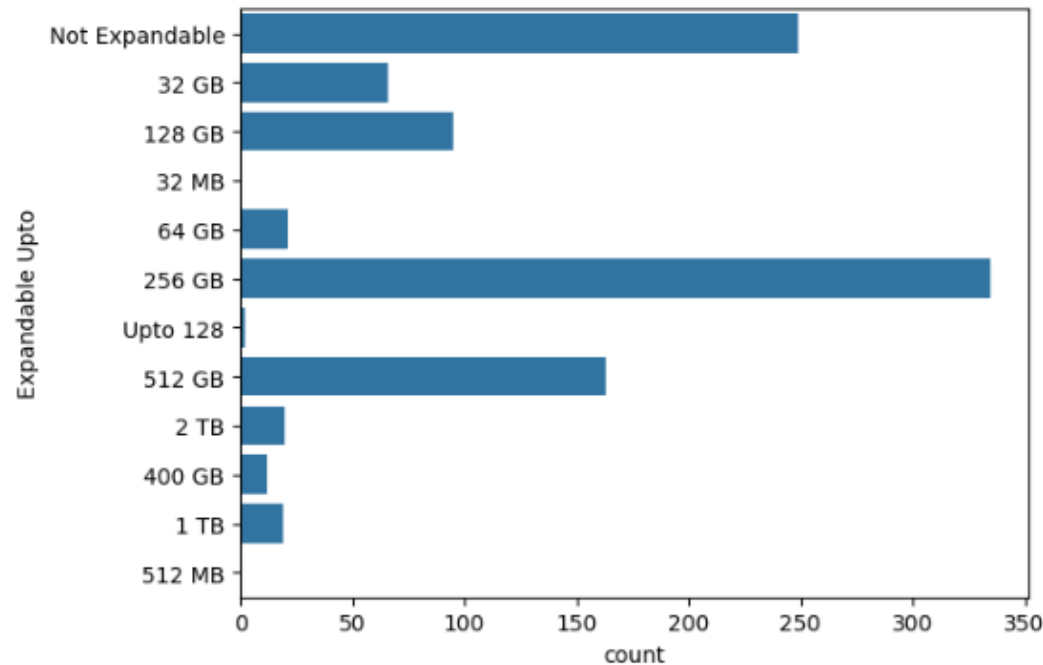
- Smart Phones with ROM Around 64 GB were most commonly seen.
- 128 GB & 32 GB were also common among devices

RAM Storage



- RAM with 4GB was commonly seen in devices followed by 3GB & 6GB

Expandable Memory

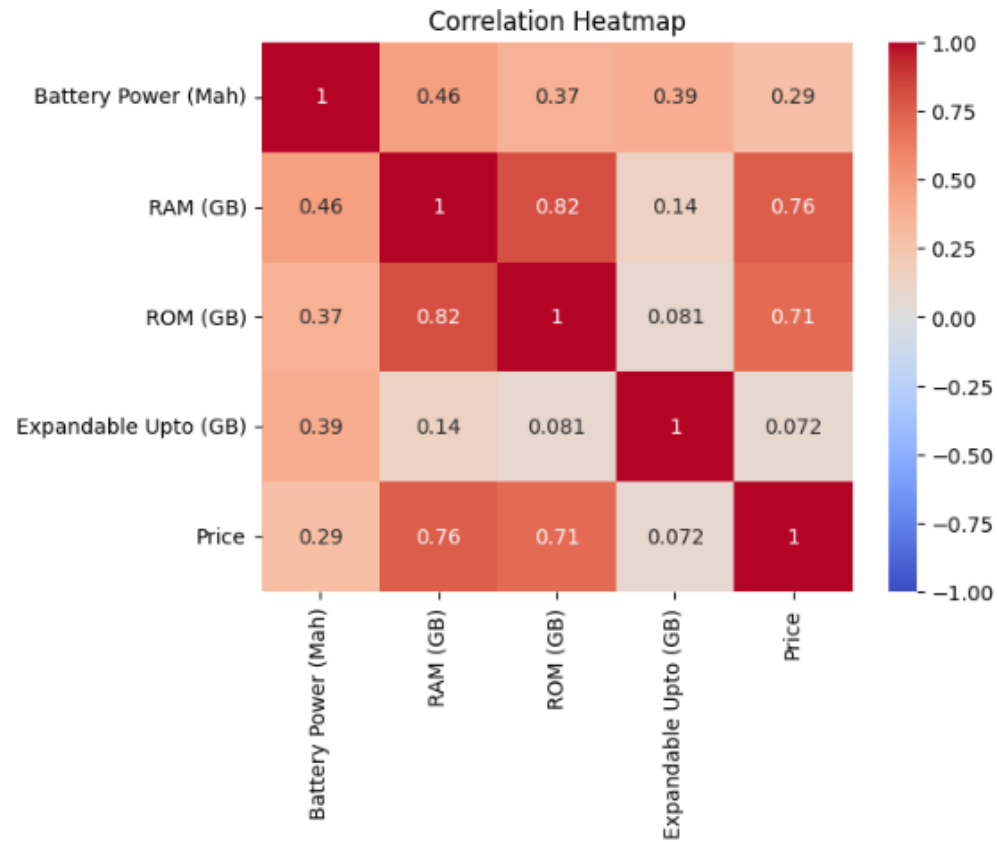


- Devices with Expandable memory up to 256 GB were found to be more common among devices.
- Where as good number of devices also had Un Expandable memory.

Bivariate Analysis

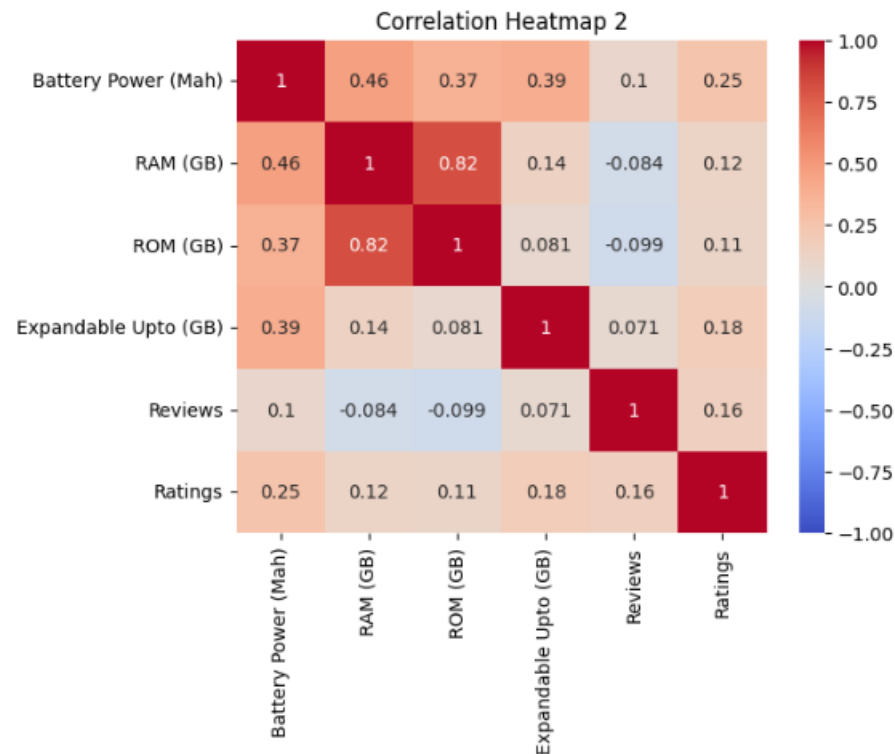
By Raghav Tyagi

Prominent Factors Affecting the Prices



- The most influential factors on device pricing are RAM and ROM. The strong correlations between these features and price suggest that higher RAM and ROM typically lead to higher prices. Battery power and expandable storage have less impact on the price and are less interrelated with other features.

Prominent Factors Affecting the Ratings



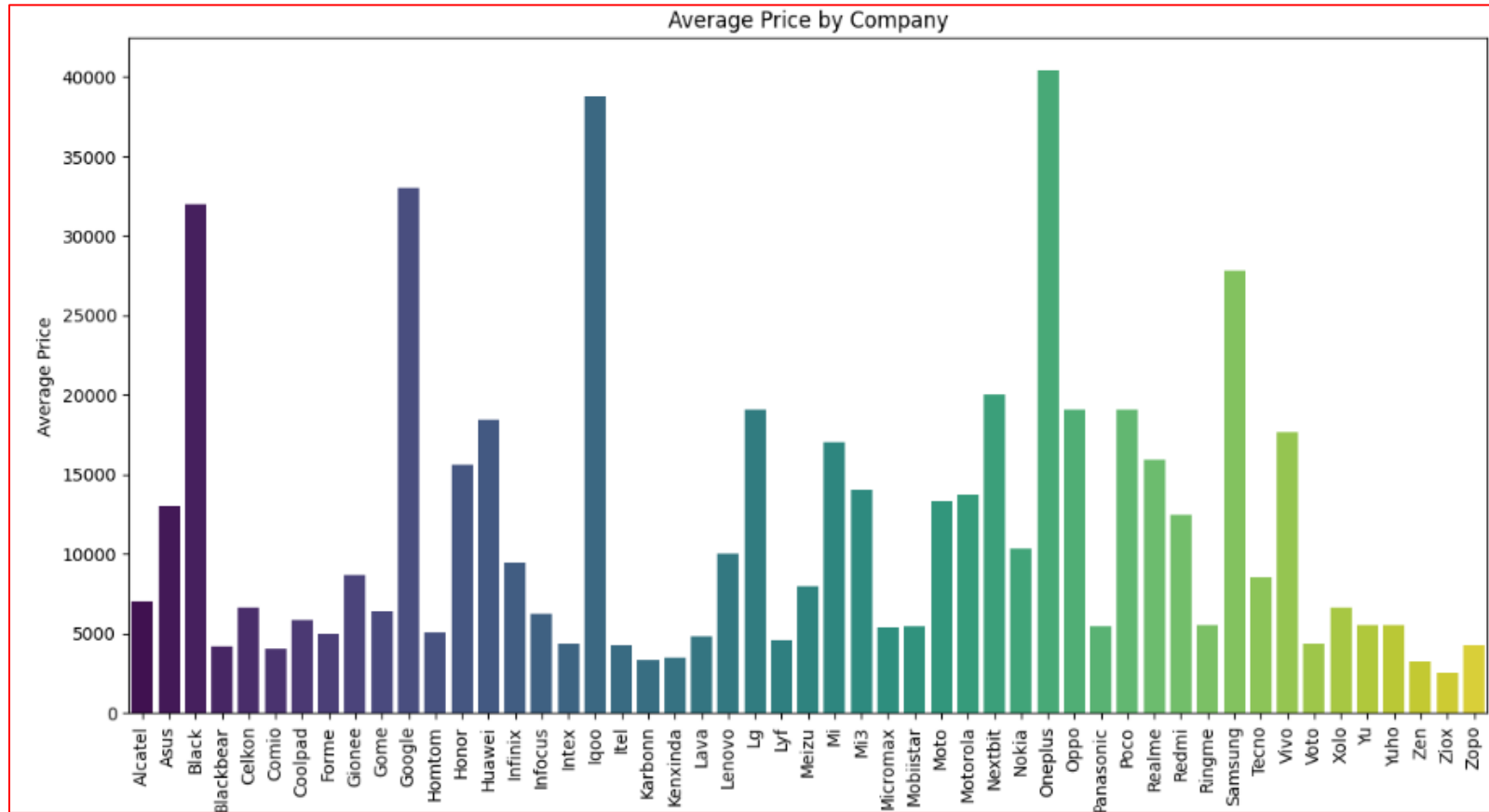
- **Battery Power (mAh)** has the most notable positive impact on ratings compared to other parameters, though the correlation is still moderate.
- **RAM (GB)**, **ROM (GB)**, and **Expandable Upto (GB)** have weak positive correlations with ratings, indicating their influence is less significant.
- **Reviews** also show a weak positive correlation with ratings, suggesting that more reviews can lead to better ratings, though the relationship is not strong.

Battery Power seems to have the most significant impact on ratings among the parameters analyzed, but the correlations are relatively low, indicating that many other factors likely influence ratings.

Other Insights

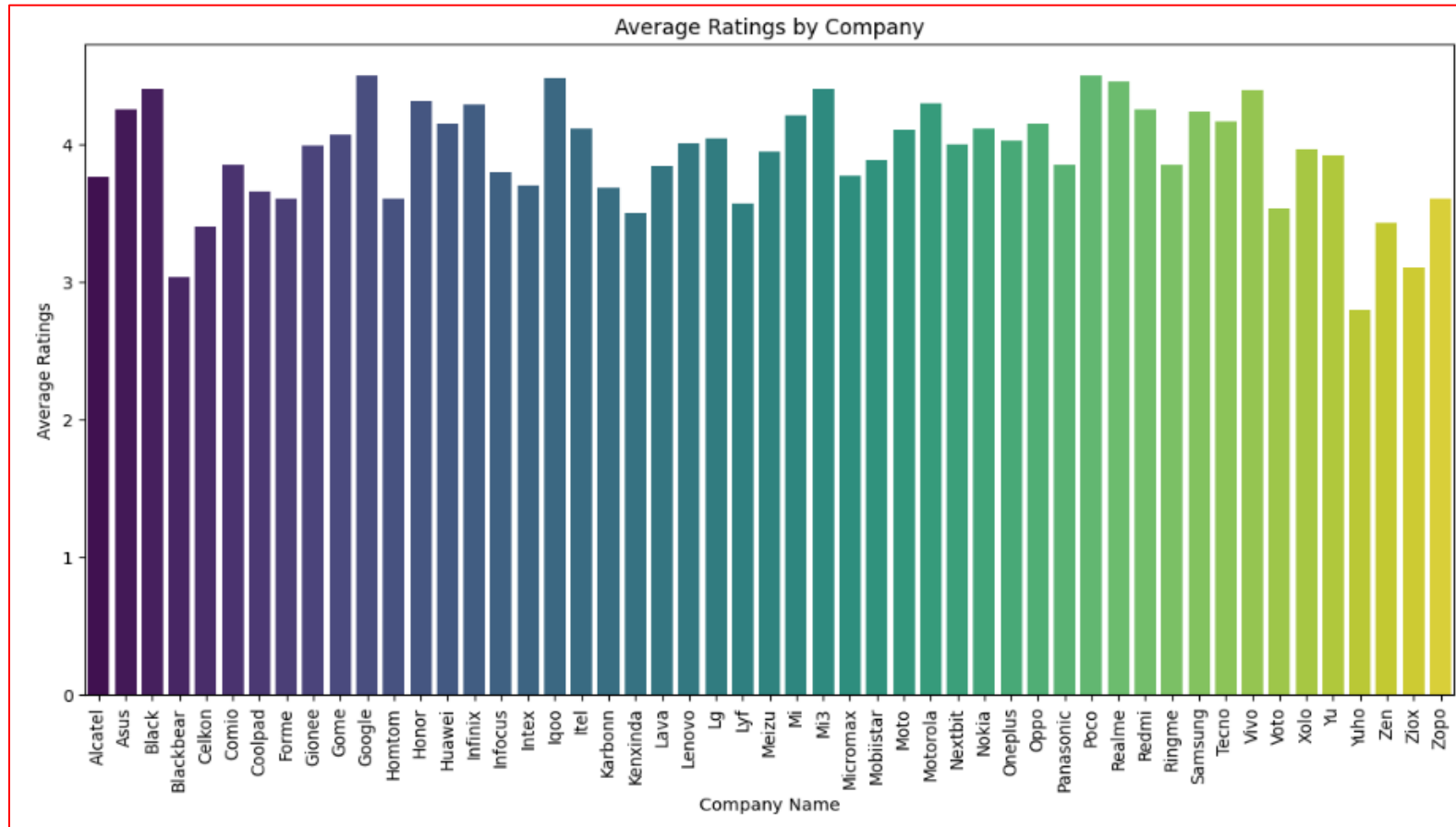
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Average Price Company Wise



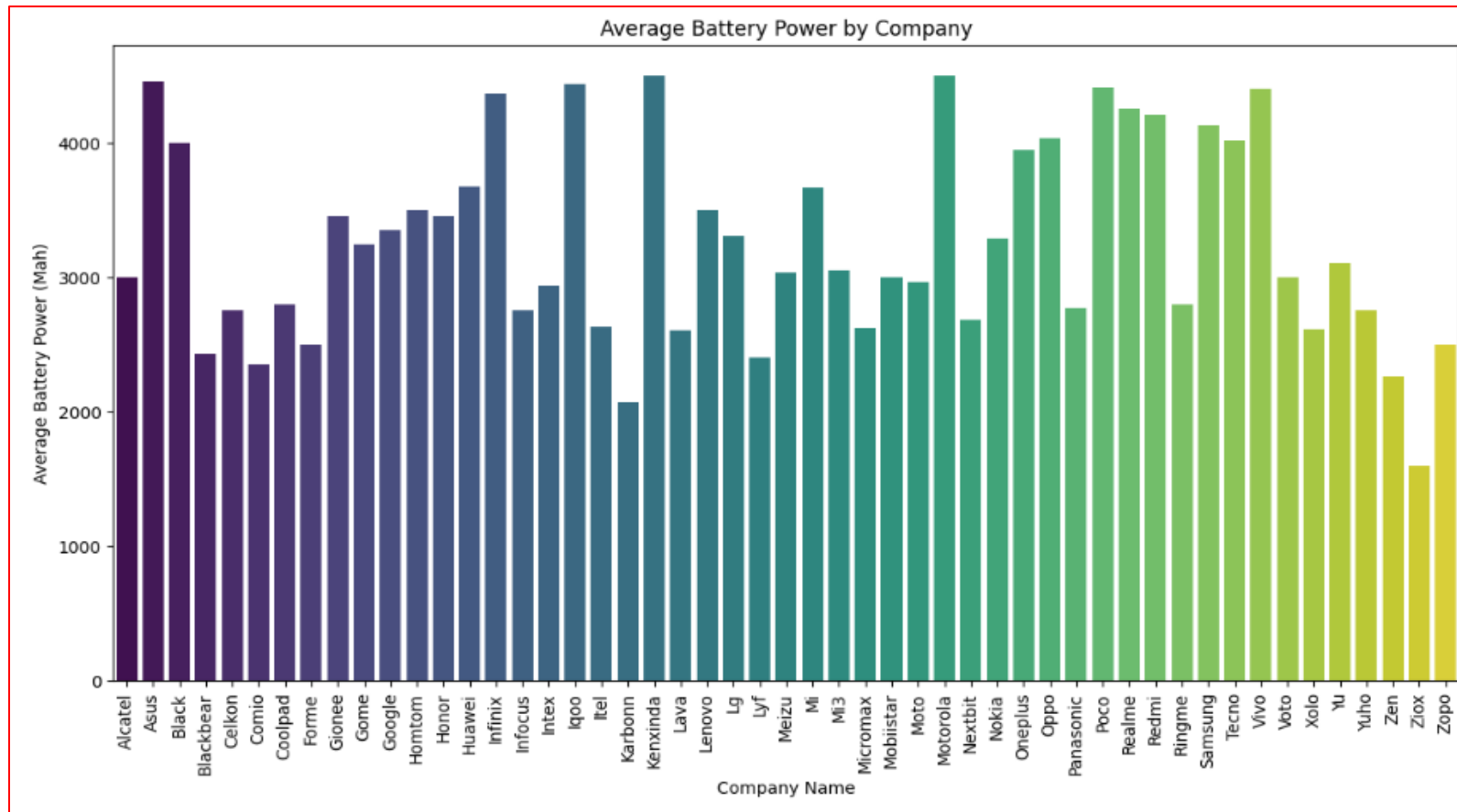
- Oneplus, Iqoo, Black, Google & Samsung have high average smartphone prices.
- Whereas companies like Huawei, Lenovo, Gionee, Nokia, Mi, and Redmi have average prices around between 15000 to 10000.
- Companies like Zopo, Ziox, Zen, and Blackbear have average prices under 5000.

Average Rating Company Wise



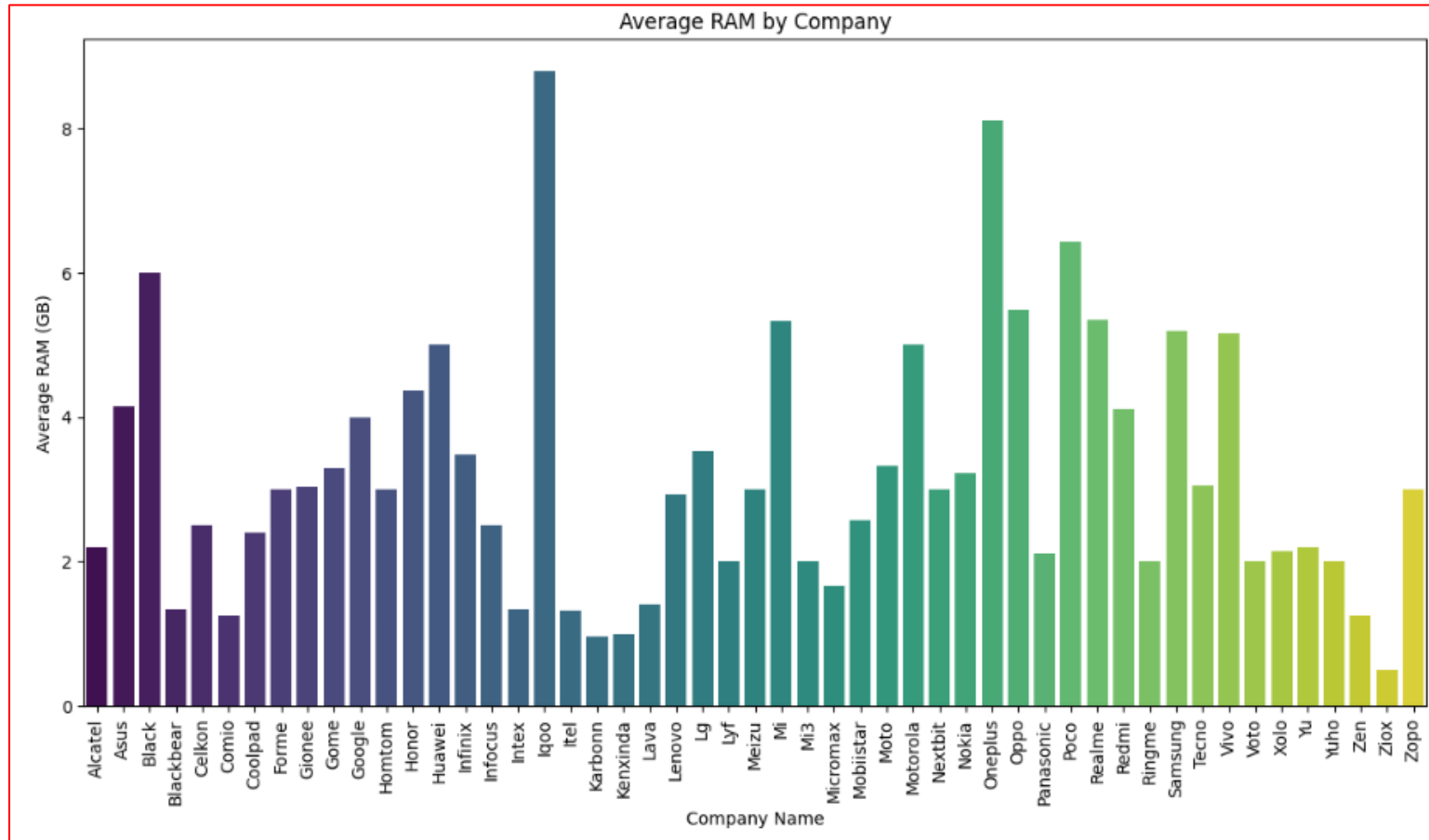
- Almost every Company has an average rating of around 3 to 4.
- While certain companies have been found to have average ratings below 3.

Average Battery Power Company Wise



- Smart Phone Companies like **Asus, Motorola, Tecno, Samsung, Panasonic, Vivo, Huawei, Kenxinda, Iqoo, Poco, Realme, and Redmi** offer high battery power across all devices.

Average RAM by Company



- Iqoo and Oneplus have offered comparatively higher RAM in smartphone devices catering to heavy multitasking and fast processors.