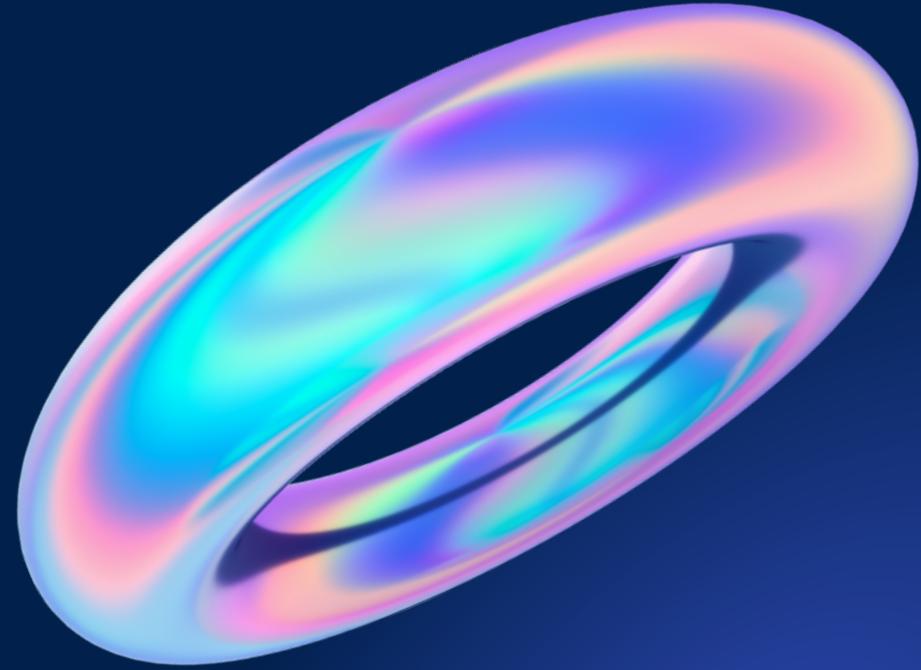




# Python Final Project



GROUP 6  
Tech Risers

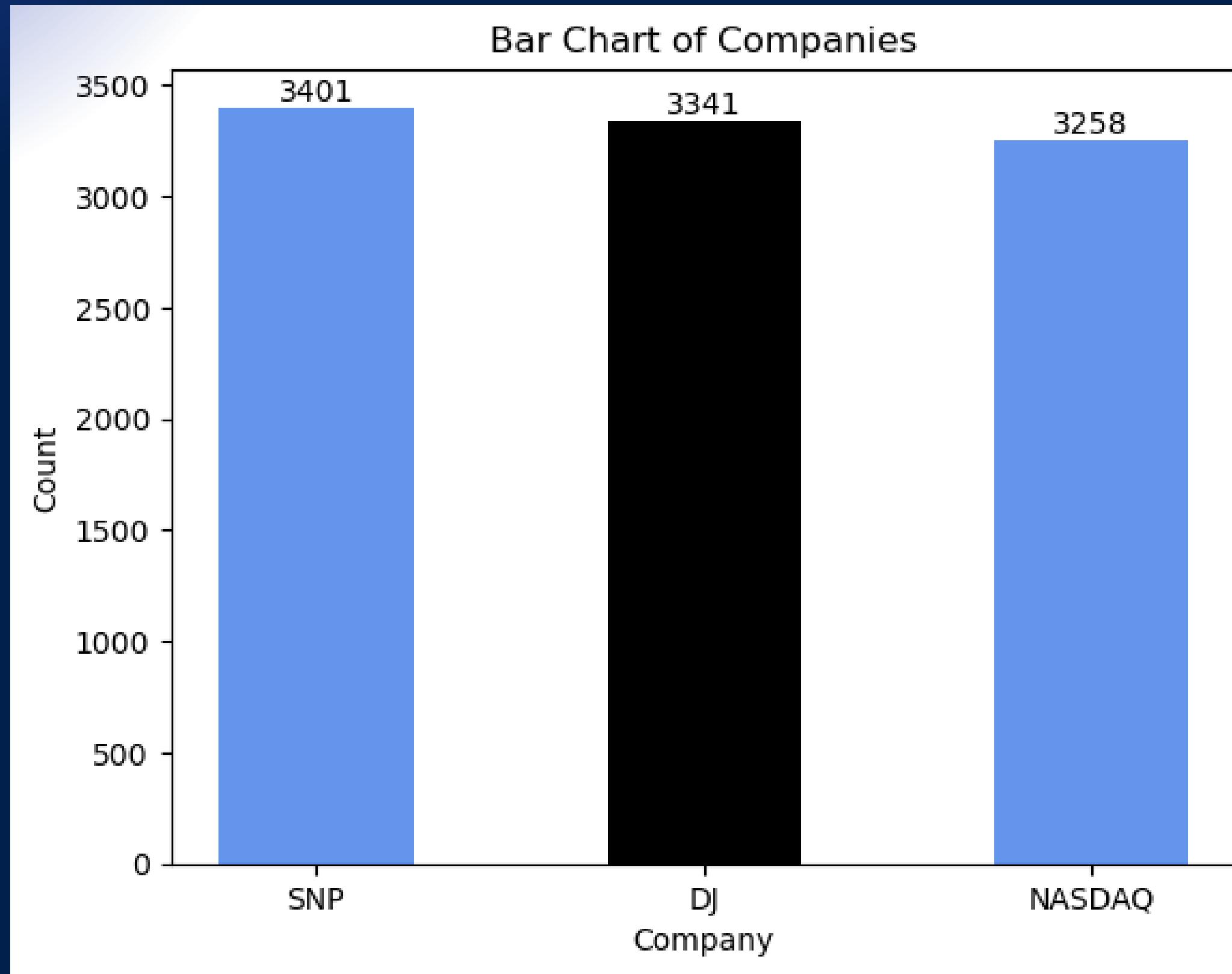
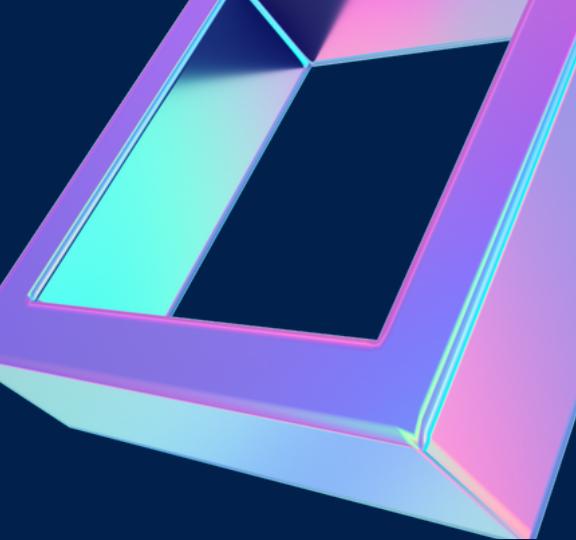
# Introduction to Data

The dataset contains information about 10,001 different financial instruments. Each entry gives details about specific indices, companies, and market conditions.

Three key players: NASDAQ, SNP (S&P Global Inc.), and DJ (Dow Jones & Company)

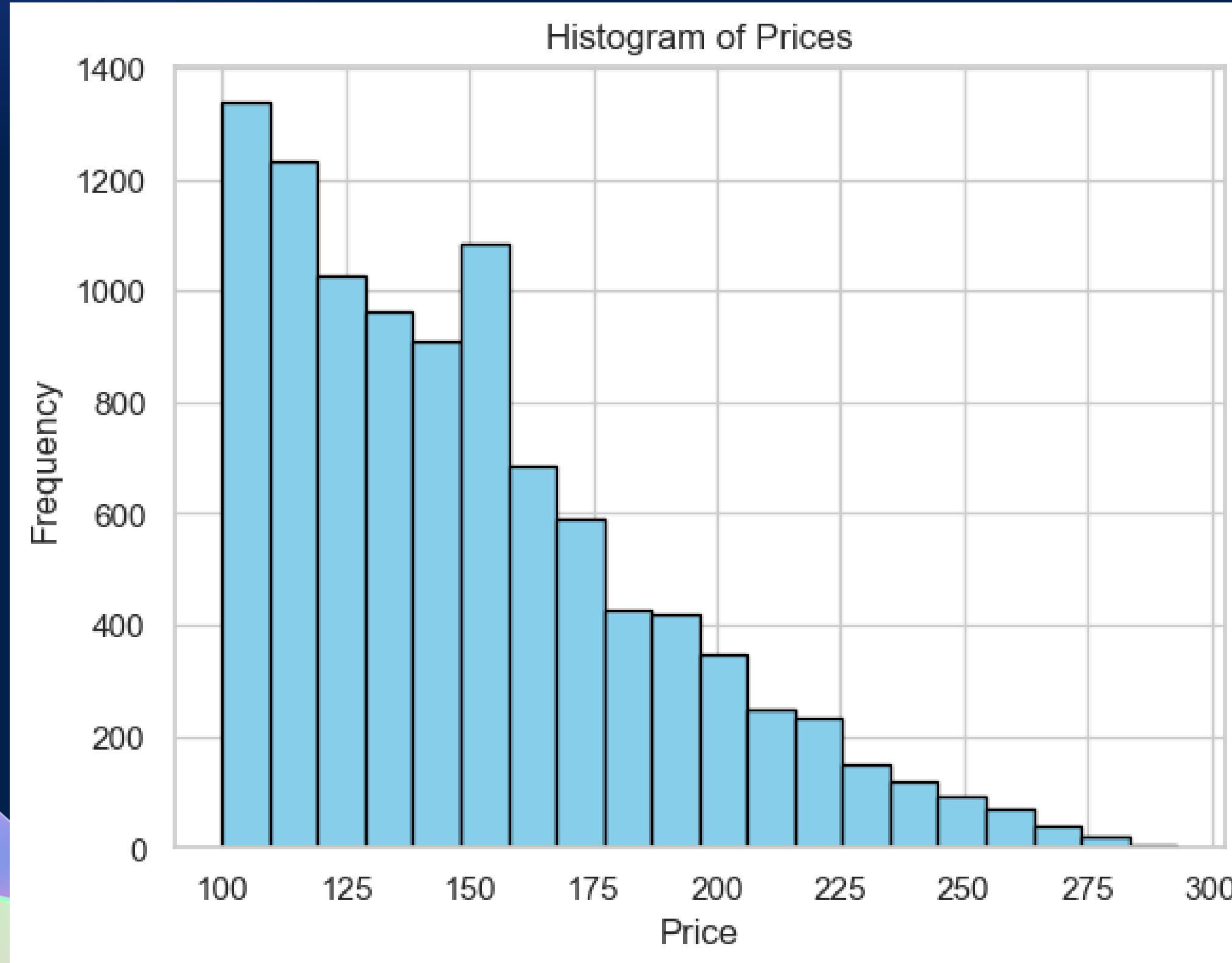


# Bar Chart



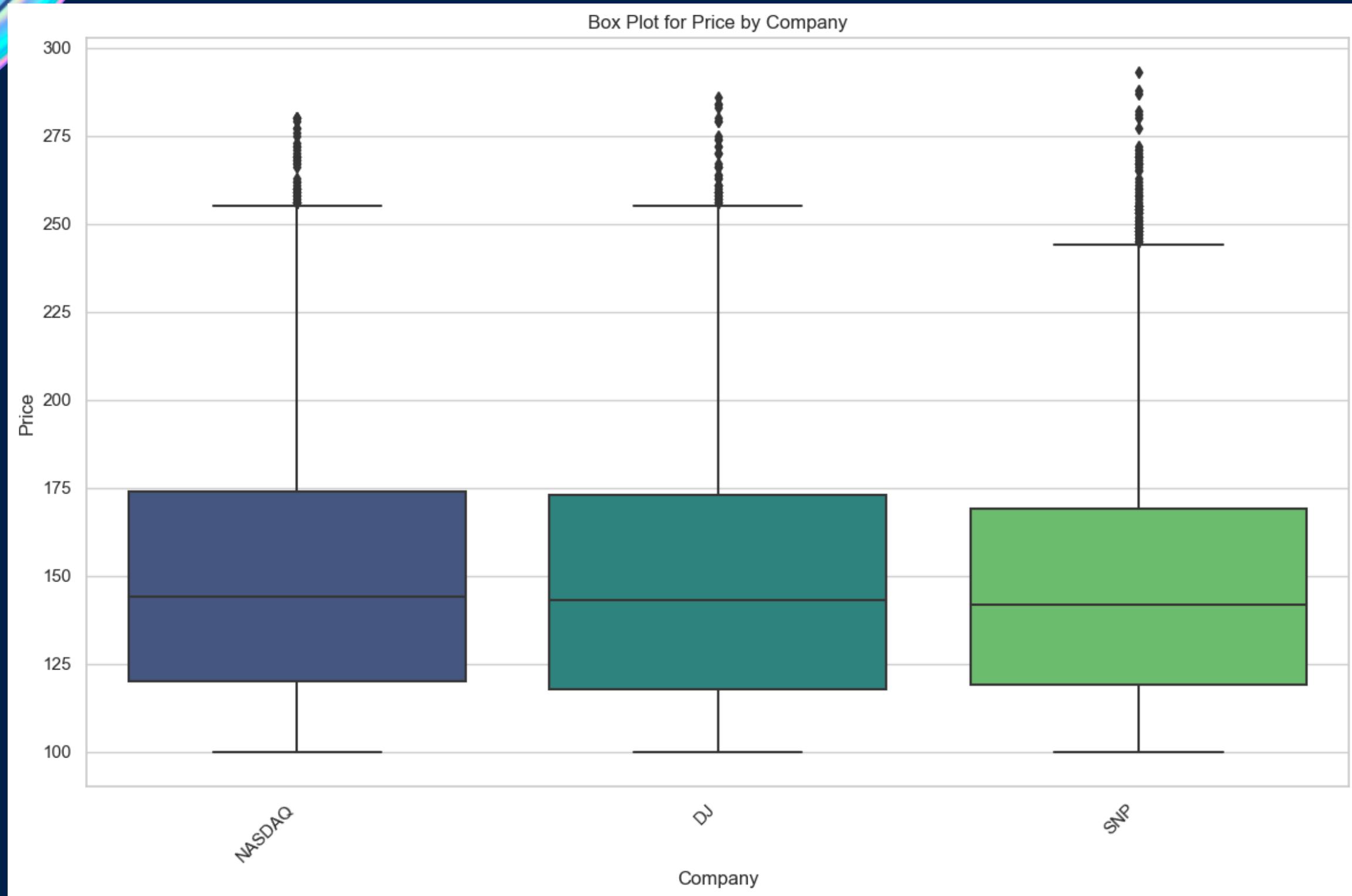
- SNP has the highest count among the three, leading with 3401 companies.
- DJ closely follows with 3341 companies, exhibiting a minimal difference.
- NASDAQ trails with 3258 companies, maintaining a slightly lower count.

# Histogram



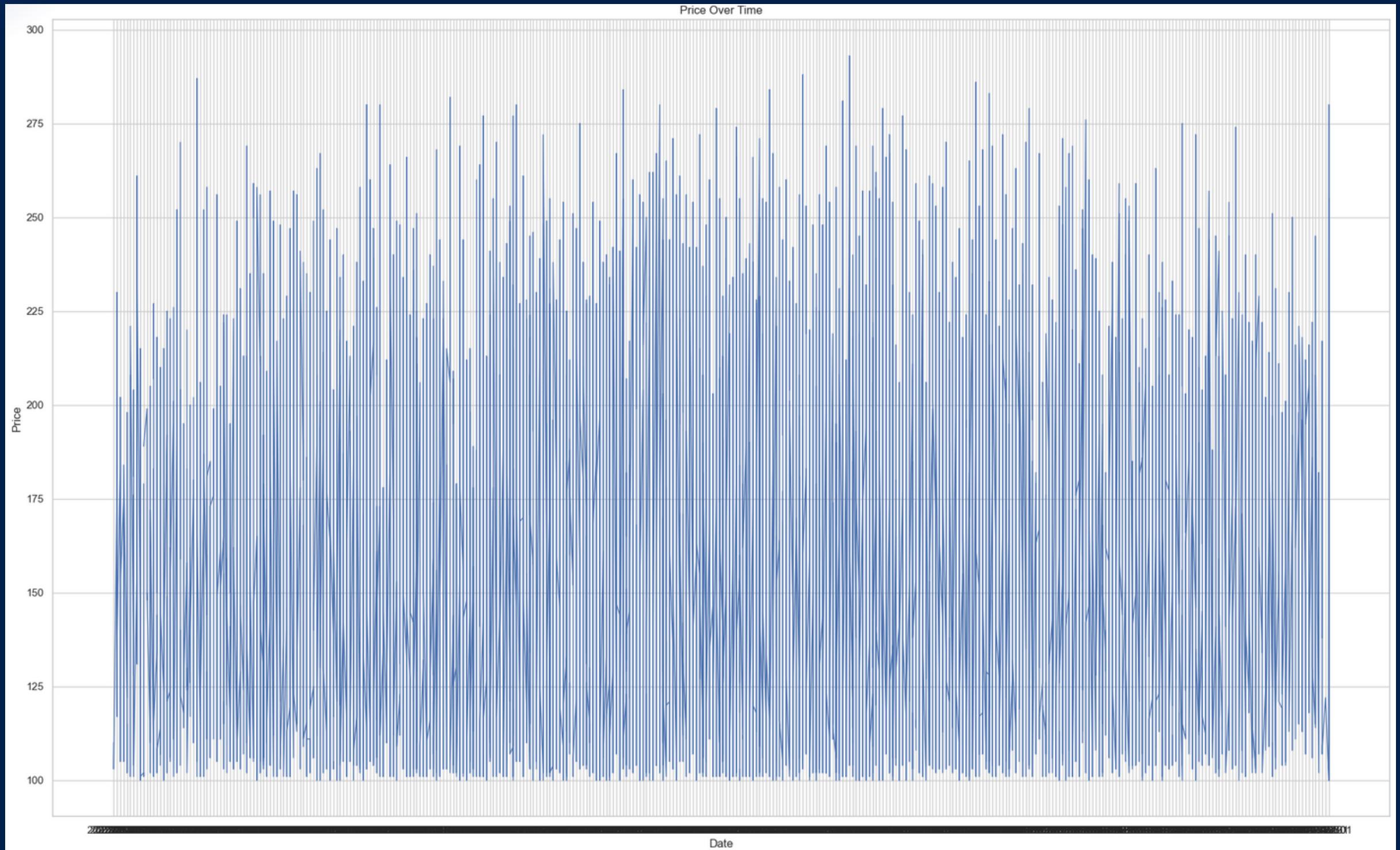
- Histogram represents the distribution of prices within the dataset.
- It highlights a peak between 1300 and 1400, signifying the most frequent price range.
- The distribution is positively skewed.

# Box Plot



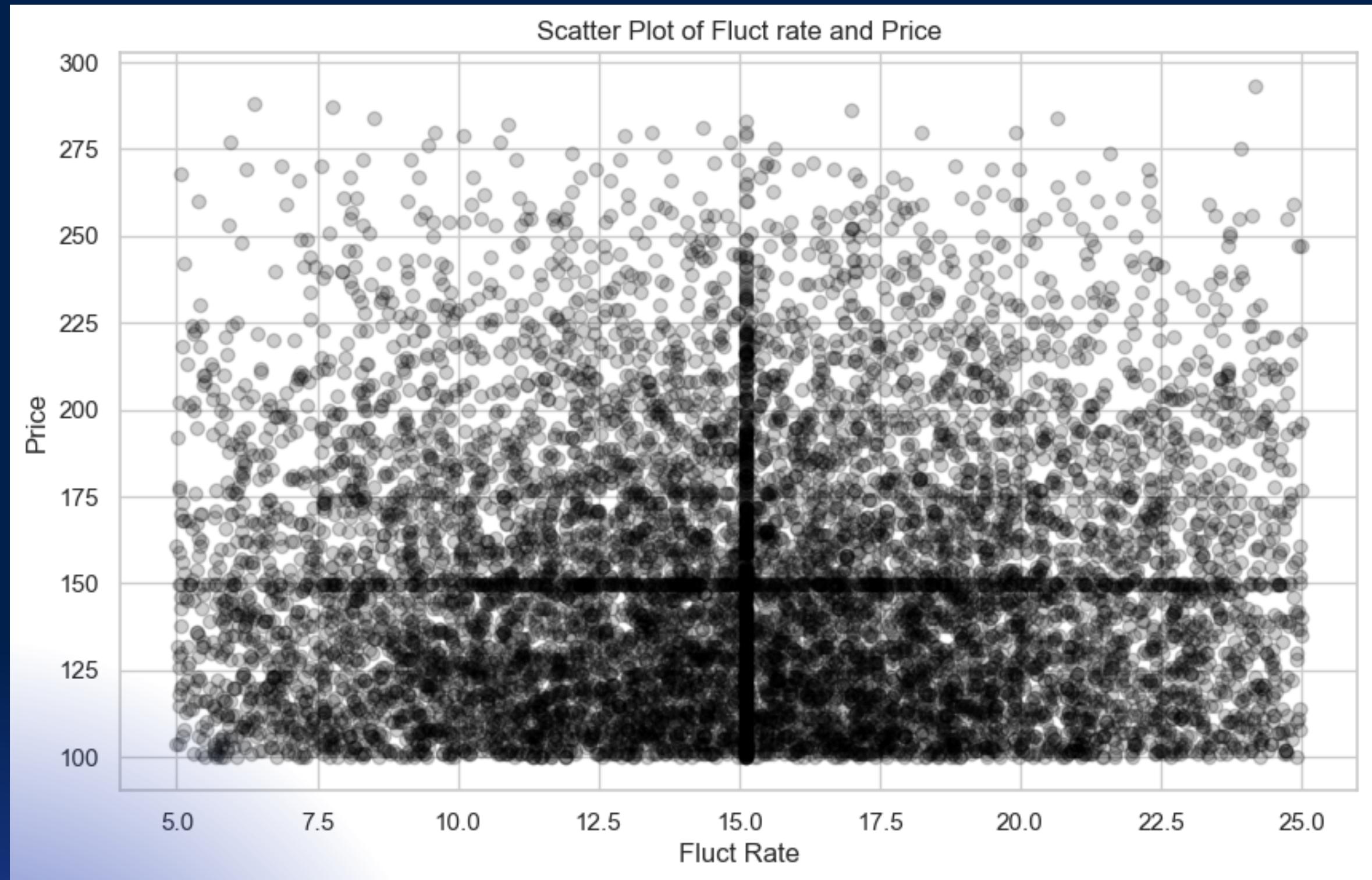
- Box plot provides a visual summary of the distribution of prices for each company.
- It reveals that NASDAQ and DJ share similar price distributions, with nearly identical medians.
- SNP showing a consistently lower median, indicating generally lower prices.

# Line Graph



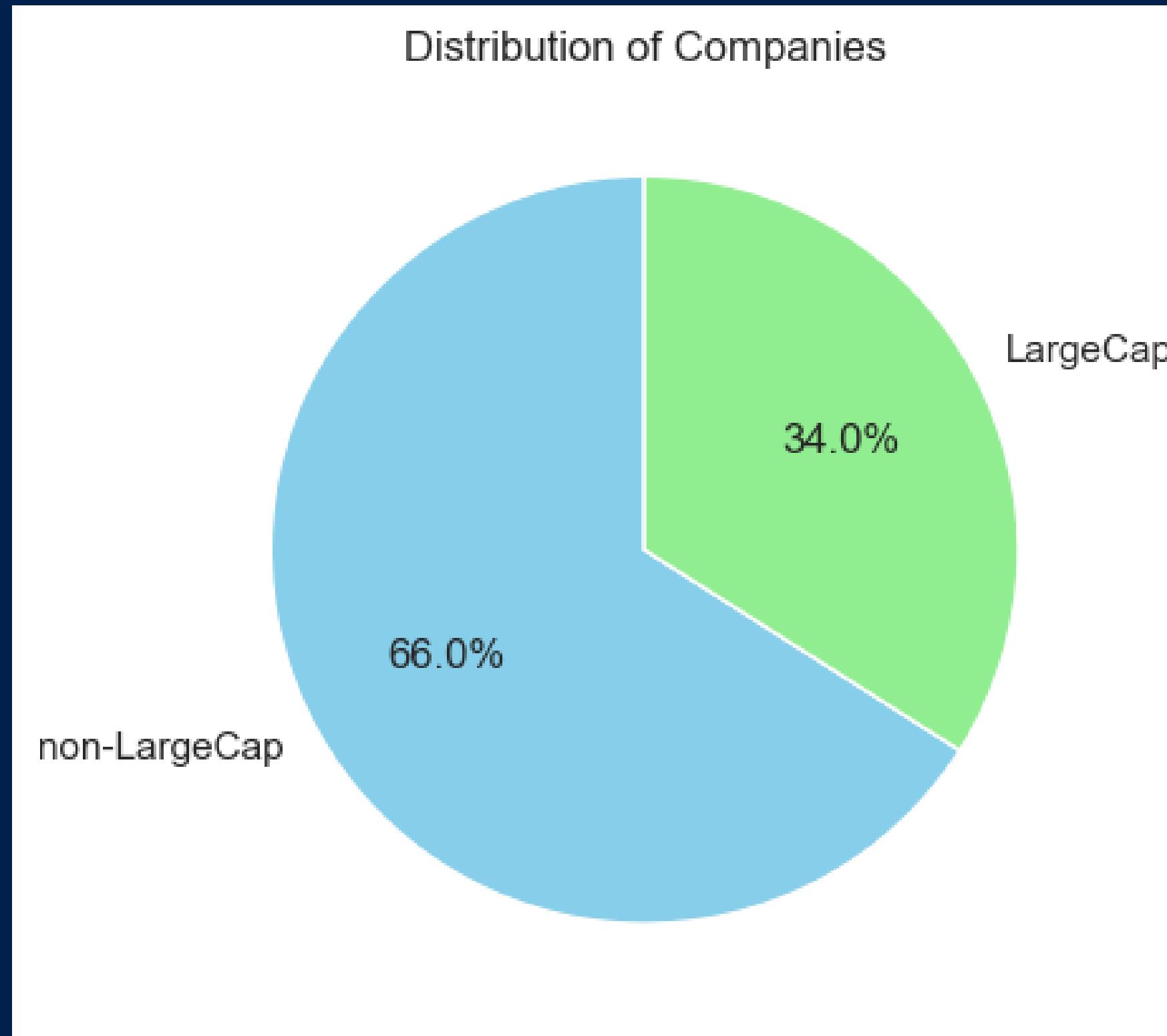
- The thin line represents the variation in price over time.
- A visual representation suggests a drastic fluctuation in prices.

# Scatter Plot



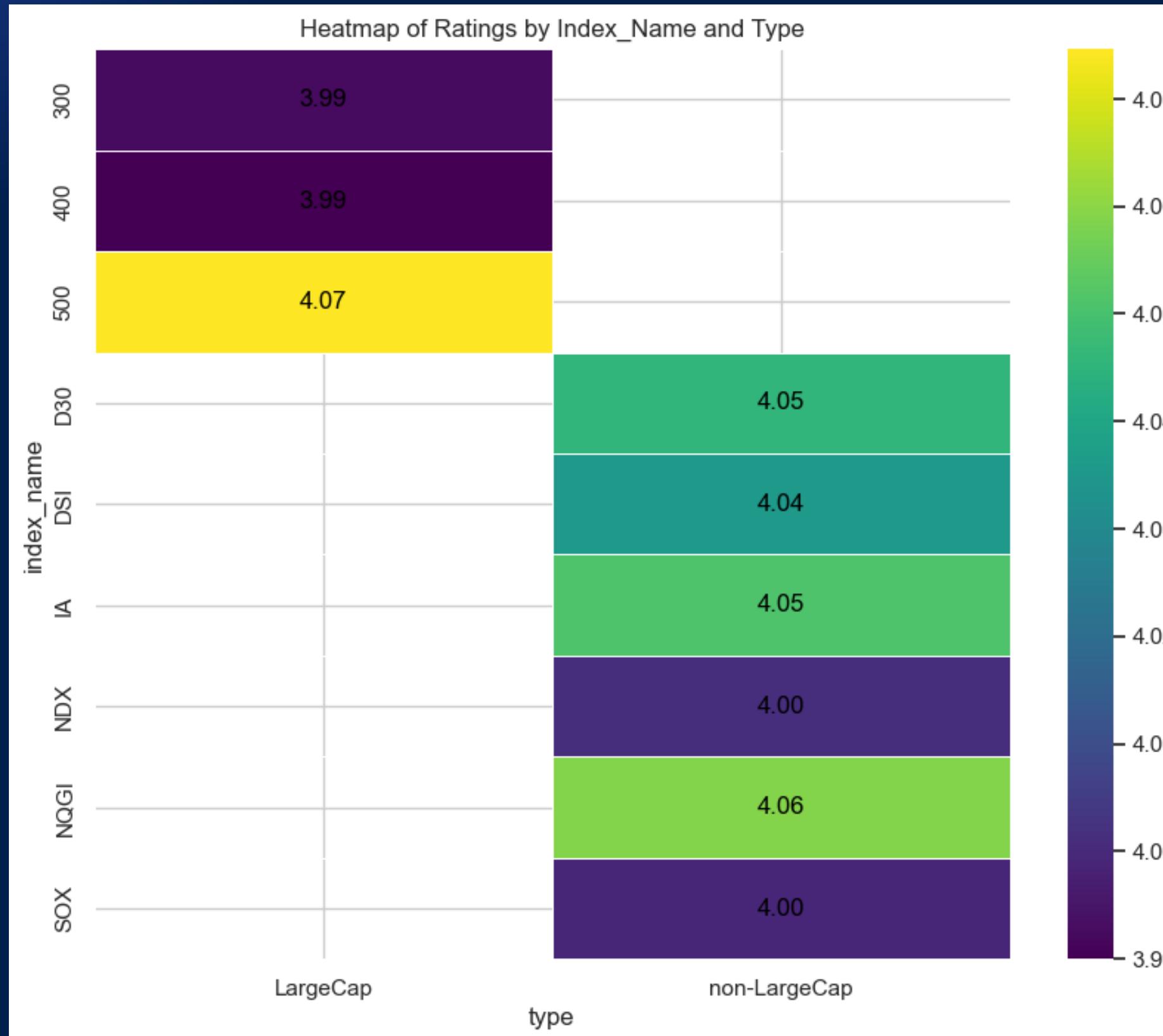
- This diagram shows fluctuation rate against price.
- This diagram represents no clear correlation.
- Data shows Lack of a distinct trend implies no strong correlation between fluctuation rate and price.

# Pie Chart



- Pie chart shows distribution of data between two categories: Large Cap and Non-Large Cap
- Large Cap entities represent 34.0% of the total composition. Large Cap, short for "Large Capitalization," designates companies with significant market capitalization.
- Non-Large Cap entities constitute the majority share at 66.0%. This category encompasses companies with smaller market capitalizations,

# Heat Map



- It represents the relationship between 'Index\_Name' and 'Type' with respect to the 'Rating' values
- Darker colors indicate higher ratings, while lighter colors represent lower ratings.
- **Conclusion**
- For index name '500' and LargeCap Type rating is 4.07 which is highest.
- For index name 300 and 400, And LargeCap Type rating is 3.99 which is lowest.

# Conclusion

- SNP emerges as a standout with consistently lower median prices (120-170) compared to its counterparts.
- Notably, SNP takes the lead with the highest count, boasting 3401 companies.
- Examining the distribution, Large Cap entities symbolize market leaders (34.0%), while Non-Large Cap entities represent smaller enterprises (66.0%). This diversity paints a comprehensive picture of the market landscape.
- Based on the data, SNP stands out as a top performer. Large-cap companies usually have higher ratings, and since SNP is one of them, it reinforces its status as a top player.



# THANK YOU

Questions?

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Mayuri Parkhi  
Vrushant Bhanderi  
Aastha Savaliya