Exploratory Data Analysis

Key observations:

- Price ranges from 364 to 426 with an average around \$400
- Volume shows significant variability (13M to 48M shares)
- Sentiment scores range from 0.048 to 0.244 (neutral to slightly positive)
- Trend values range from 24 to 100 (showing wide variation in technical indicators)



Price Time Series

- Shows steady upward trend with some volatility
- Notable dip around January 31, 2024
- · Strong recovery and new highs in March

Volume Time Series

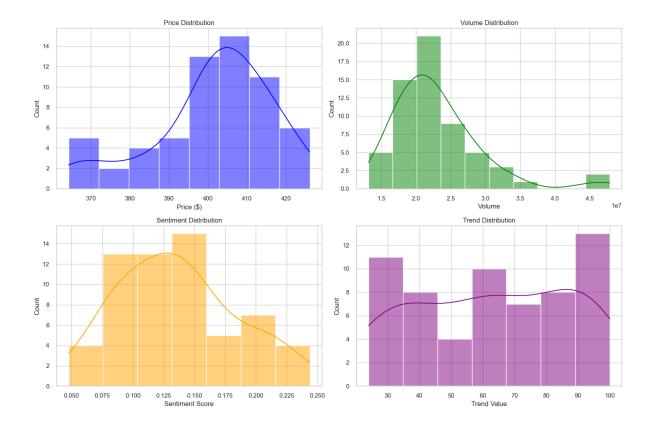
- Spikes observed on January 31 and March 15
- Generally ranges between 15-30M shares
- No clear seasonal pattern visible

Sentiment Time Series

- Fluctuates between 0.05 and 0.24
- Highest sentiment on January 10, 2024
- Several days with sentiment below 0.1

Trend Time Series

- Shows significant volatility
- Peaked at 100 on January 30 and February 1
- Generally higher values in latter half of period



Price Distribution

- Slightly right-skewed distribution
- Most values clustered between 390-390-415
- Few outliers at both ends

Volume Distribution

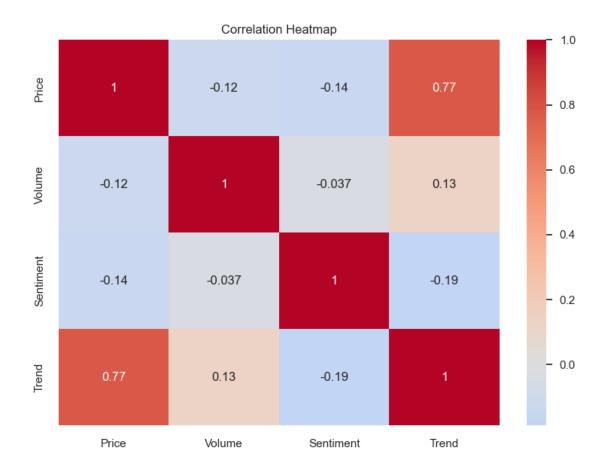
- Right-skewed with long tail
- Most trading volumes between 15-30M shares
- Several high-volume outliers

Sentiment Distribution

- Roughly normal distribution
- Center around 0.12-0.15
- Few extreme values

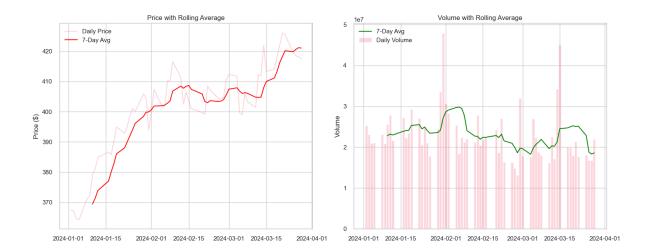
Trend Distribution

- Bimodal distribution
- Peaks around 30-40 and 90-100
- Wide range of values



Key correlations:

• High positive correlation between Price and Trend (0.77)

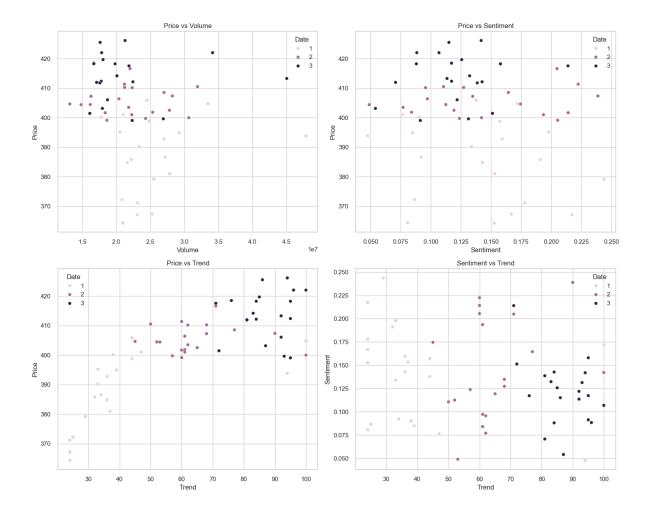


Price Rolling Avg

- Shows smoother trend than raw prices
- Clear upward trajectory despite some dips
- Recent consolidation in March

Volume Rolling Avg

- More stable view of trading activity
- Shows volume spikes were temporary
- Baseline around 20-25M shares



Price vs Volume

- No clear linear relationship
- Some high-volume days correspond with price drops
- Highest prices achieved on moderate volume

Price vs Sentiment

- Weak positive relationship
- Some high sentiment days correspond with price increases
- But many high price days had only moderate sentiment
- Positive relationship as expected
- Higher trend values generally correspond with higher prices

• Some dispersion in the relationship

Key Insights

- The stock showed an overall upward trend during this period despite some volatility
- 2. Volume spikes often coincided with price movements (both up and down)
- 3. Sentiment shows weak predictive power for price movements
- 4. Trend technical indicators show stronger relationship with price
- 5. The strongest single correlation is between Price and Trend indicators
- 6. No evidence of strong multicollinearity between variables
- 7. The data suggests technical factors (Trend) may be more influential than sentiment in this period