


Big Mountain Resort Report

How can Big Mountain Resort increase revenue over 10% next season via decreased operating costs and/or increased ticket prices supported by its premium facilities?



Recommendation and Key Findings

- If Big Mountain Resort maintains current facilities:

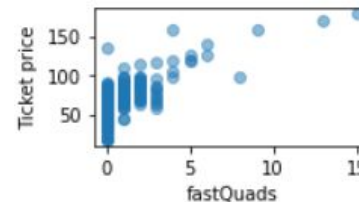
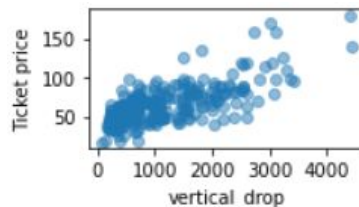
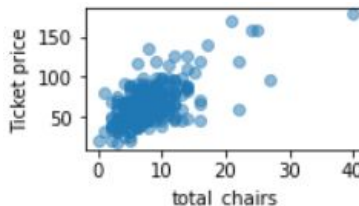
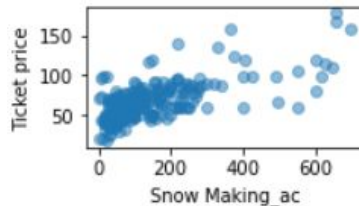
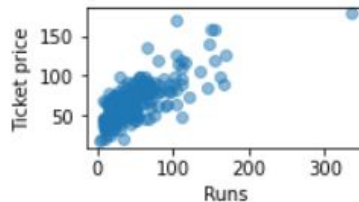
recommend increasing ticket prices to \$95
- Including 10 runs closed:

ticket price of \$94 supported by data
- Adding 1 run, 1 chair lift, increasing vertical drop 150 feet:

ticket price of \$104 supported by data

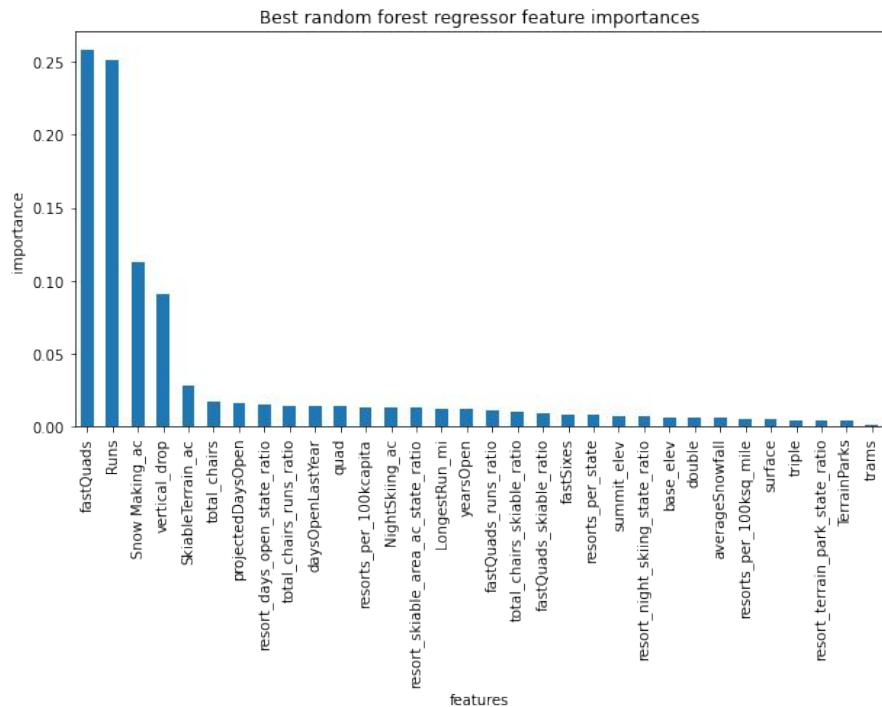
Modeling results and analysis

- Features with highest initial correlation to ticket price:
 - Runs
 - Snow making acres
 - Total chair lifts
 - Vertical drop
- Further analysis to follow for individual chair lifts and other unknown correlations with linear and random forest modeling



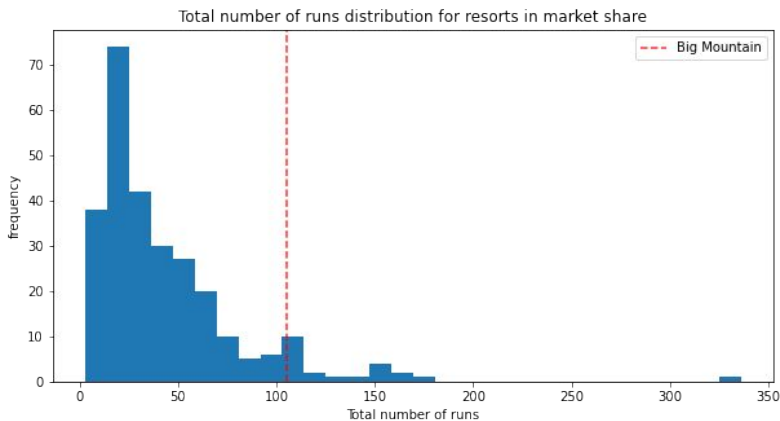
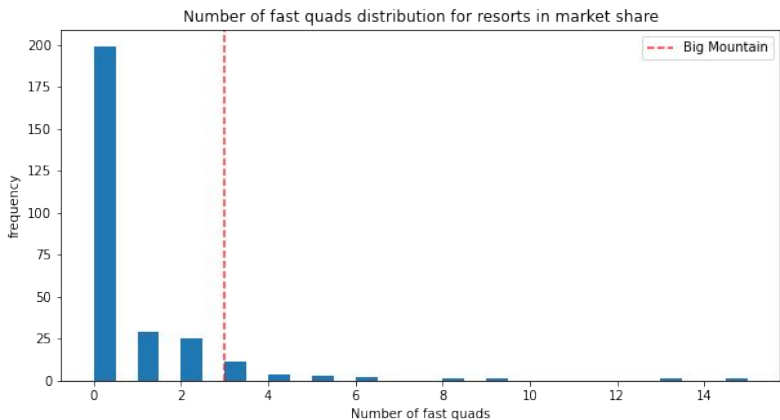
Modeling results and analysis

- Random forest regression model showed best performance of predicting optimal prices over the linear regression model
- *Fast quads, runs, snow making acres, and vertical drop* account for over 70% of all features' importance in predicted ticket price



Modeling results and analysis

- Big Mountain Resort is in the top tier of resort facilities compared to 276 other resorts, specifically in the most important features
 - Fast quads: 94th percentile
 - Runs: 92nd percentile
 - Snow making acres: 84th percentile
 - Vertical drop: 89th percentile



Conclusion

- The data shows Big Mountain Resort is able to support increasing ticket prices to match its premium facilities compared to the market competitors
 - \$94 ticket price increases revenue \$24,500,000 over a season
- Reducing operating costs by closing up to 10 runs:
 - Increasing revenue \$22.7M (excluding reduced operating costs of closed runs) compared to current price
- Expanding facilities and increasing prices to \$104 to match:
 - Increase of \$40.25M in revenue (excluding increased operating costs of additions) compared to current price