

# BIG MOUNTAIN PRICING ANALYSIS REPORT

## PROBLEM IDENTIFICATION

What opportunities exist for Big Mountain Resort to gain \$1,540,000 in additional revenue in the upcoming season by a) increasing ticket price and/or b) reducing costs?

## STRATEGIES EVALUATED

1. Raise ticket price.
2. Permanently close up to 10 of the least used runs.
3. Increase the vertical drop by adding a run to a point 150 feet lower down and installing an additional chair lift.
4. Increase vertical drop as well as adding 2 acres of snow making cover.
5. Increase the longest run by 0.2 mile to boast 3.5 miles length, requiring an additional snow making coverage of 4 acres.

## RECOMMENDATIONS

1. Raise ticket price from \$81.00 to about \$96.
  - Increases revenue by \$26,023,000 per season.
2. Close the least popular run.
  - Would not affect pricing, but contingent on savings and costs.

## MODELING RESULTS

- Sample size: 277 resorts
- Train/test split: 70% training, 30% testing
- Models compared:
  - Ordinary Least Squares regression with 8 strongest predictors
    - MAE in test data = 11.79
  - Random Forest regression
    - MAE in test data = 9.54
- Model selected: Random Forest

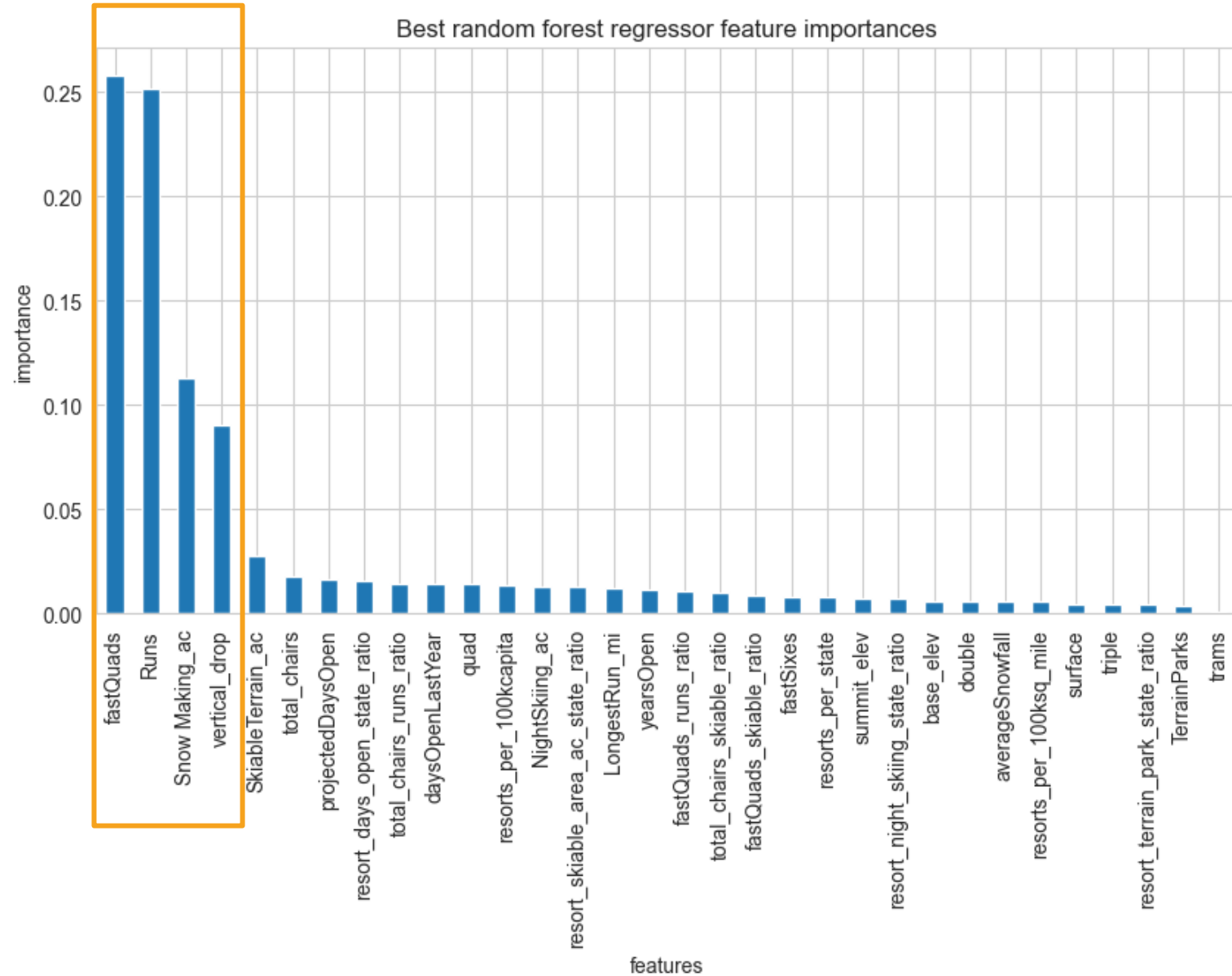
# STRONGEST PREDICTORS

Fast quads

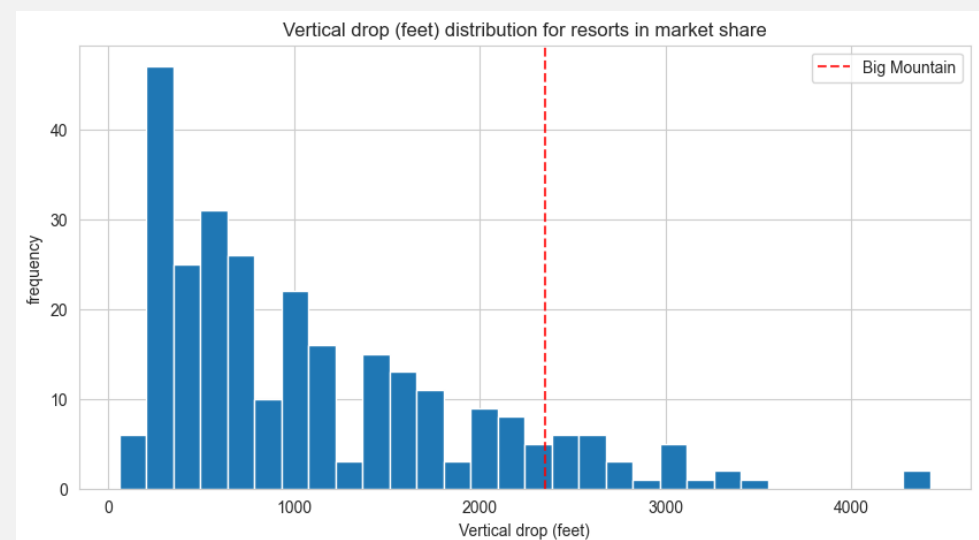
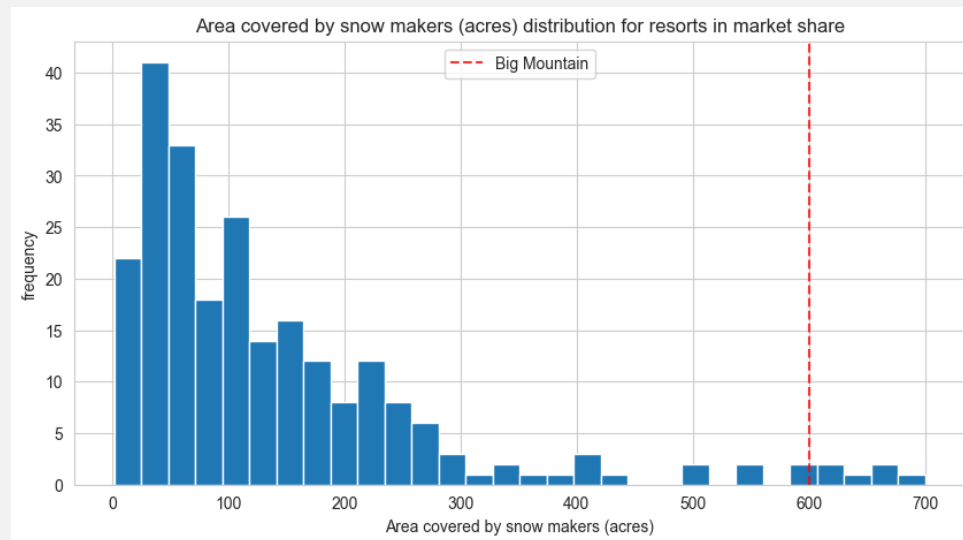
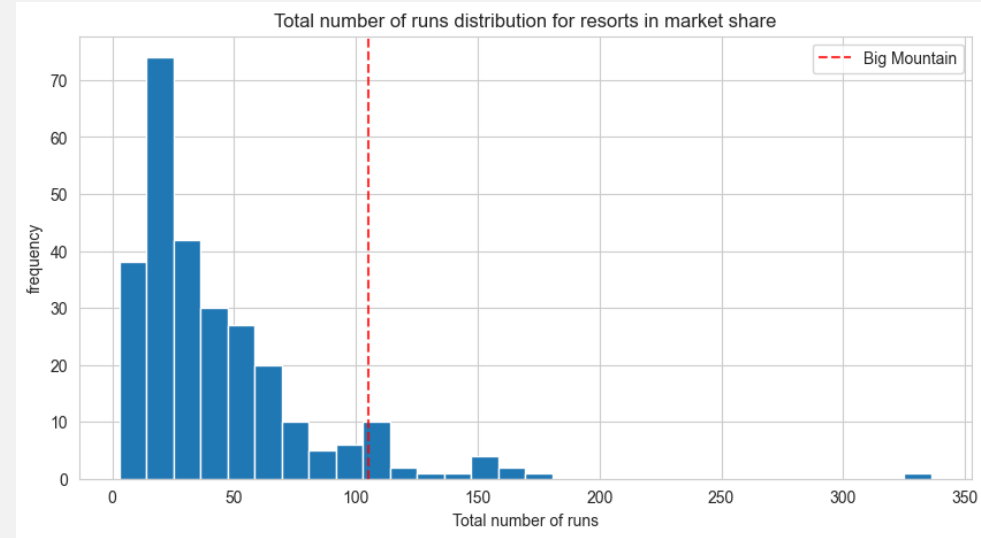
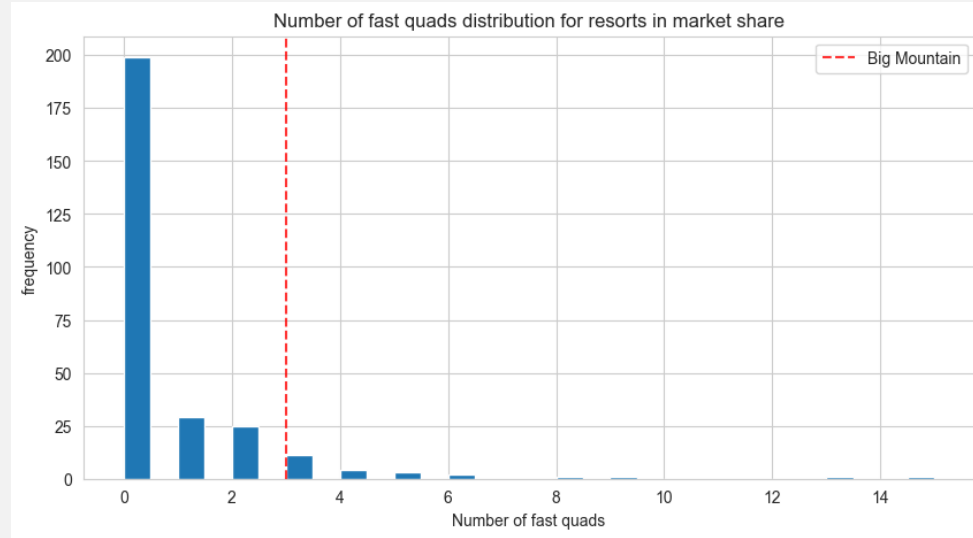
Number of runs

Snowmaking area

Vertical drop

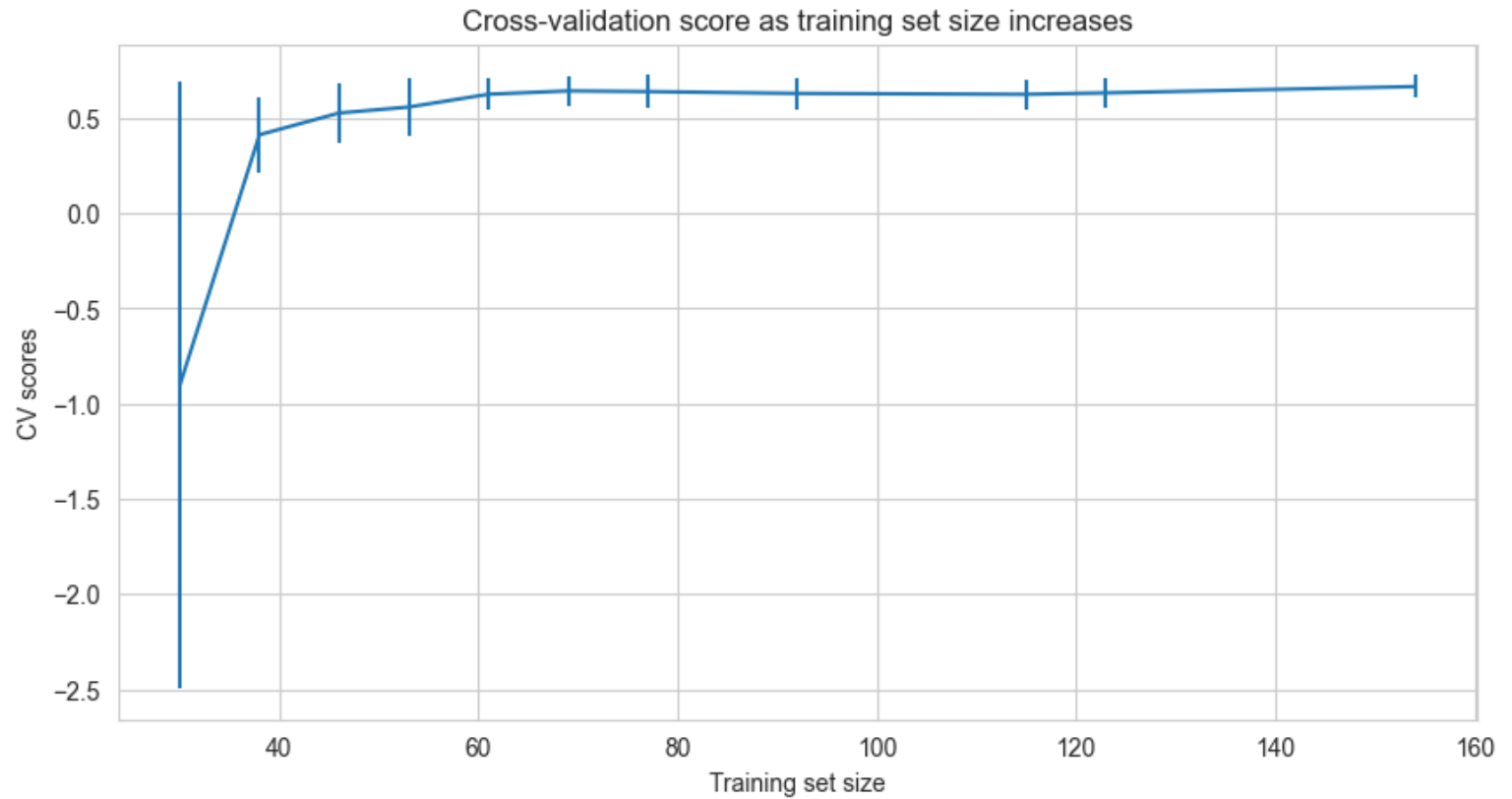


# Big Mountain stands out in these features



# SAMPLE SIZE VALIDATION

Amount of data was  
adequate





## SUMMARY AND CONCLUSION

The suggested pricing change from \$81 to \$96 would increase revenue by \$26,023,000 per season.

This strategy is supported because Big Mountain is already at the extreme upper range of the four features that were notably the most important predictors in the pricing model: Fast Quads, number of runs, snowmaking area, and vertical drop.

Highlighting these features in advertising material is highly recommended.