

# Big Mountain Resort



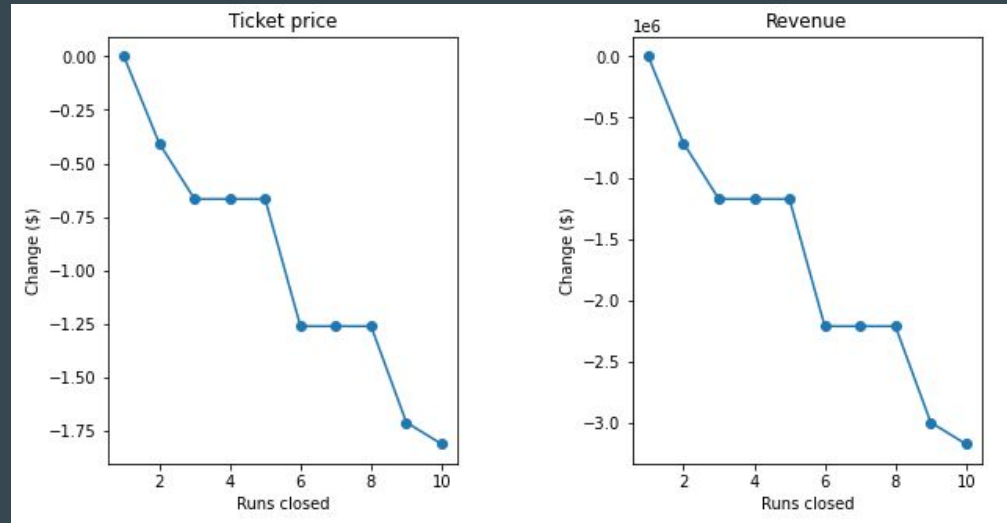
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# Problem Identification

- Big Mountain Resort is running on high operating costs
- Current strategy: charge a premium above average price of resorts in its market segment
  - Limitations to this approach
- Goal:
  - Cut costs without undermining ticket price
  - OR improve resort to support higher ticket price

# Recommendations and Key Findings

- Cutting costs is not possible without also driving down profits
  - Not recommended at this time
- See diagram (right)

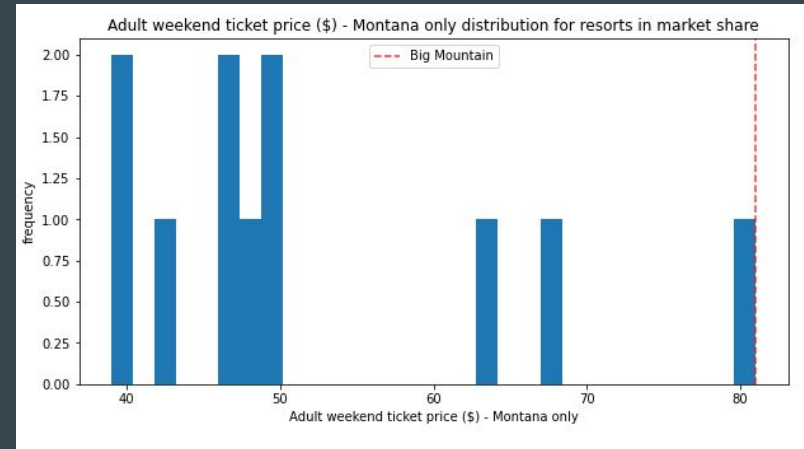
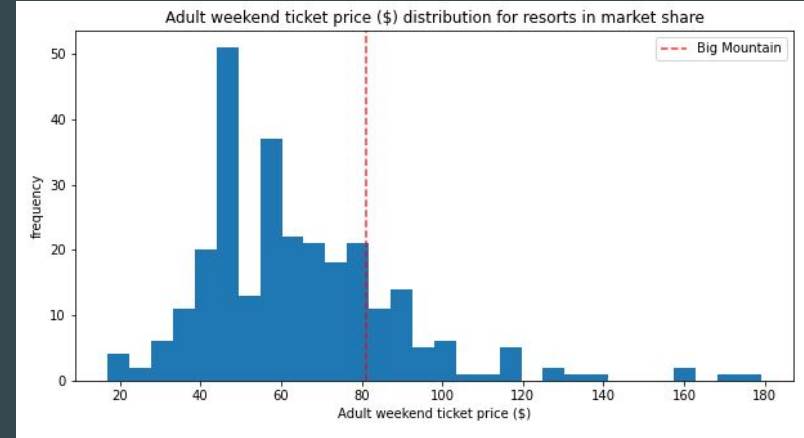


# Recommendations and Findings

- Goal: Improve resort to support increase in ticket price
- Used ML model trained to predict ticket price based upon each addition to the resort
- Add one run, 150 additional feet of vertical drop, and one chair lift
  - Increase adult weekend ticket price by \$1.99
  - Amounts to \$3,474,638 per season
- These profits are likely sufficient in covering any additional maintenance costs associated with the improvements

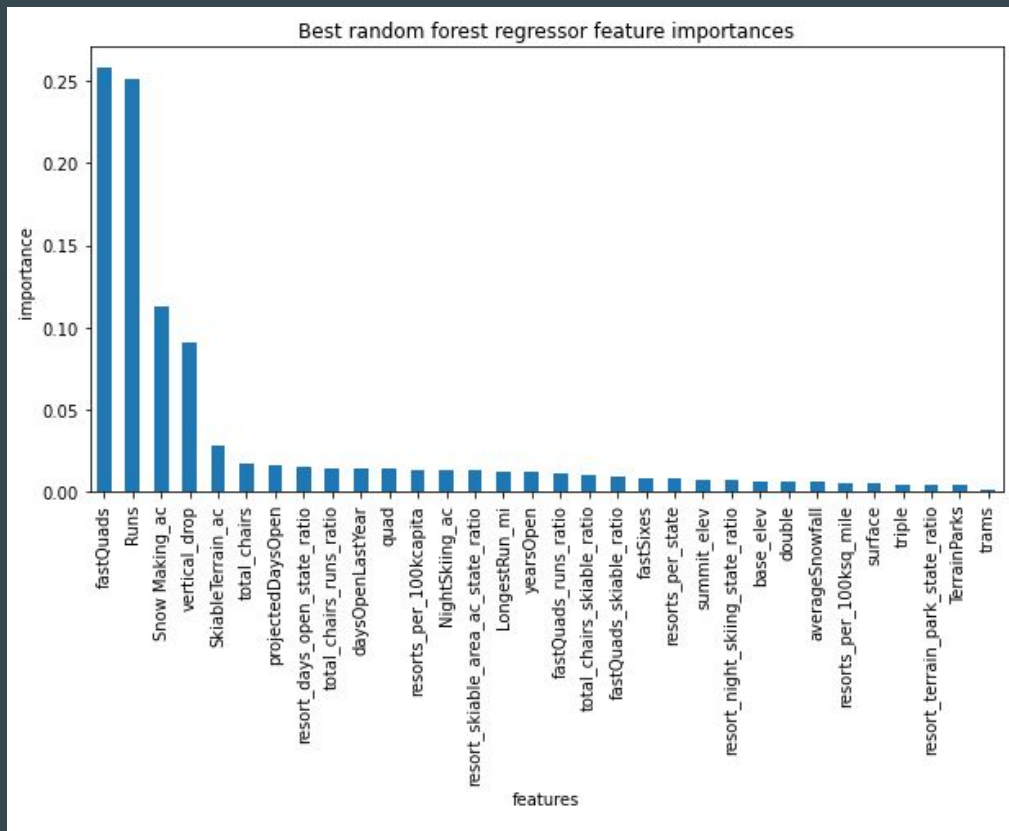
# Modeling and Results Analysis

- Data proved that Big Mountain Resort already does charge a premium above other Montana resorts
- However, for other resorts within market share, there is room for ticket price increase



# Modeling and Results Analysis

- Before running our final model that predicted ticket price increase based upon various improvements to the resort, we used a random forest regressor to identify features of importance
- These features of importance were then input into the ticket price prediction model to further determine which features will best support an increase in ticket price at Big Mountain



# Summary

- Decreasing costs at Big Mountain Resort is not possible without driving down profits
- Improving resort to support increase in ticket price is current recommendation
  - Specifically, adding one run, 150 feet of vertical drop, and adding one additional chairlift
  - This will support a \$1.99 increase in adult weekend ticket price
  - \$3,474,638 additional profit per season