### Big Mountain resort modeling

Guided Capstone Project
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**Problem**: How can Big Mountain resort increase the revenue in next skiing season?

#### **Options**:

- Cutting down on infrastructure (to reduce operating costs)
- Increasing ticket prices

Approach: Modeling the ticket price

**Available data**: Dataset containing info about facilities and natural features at 330 ski resorts in the same market share

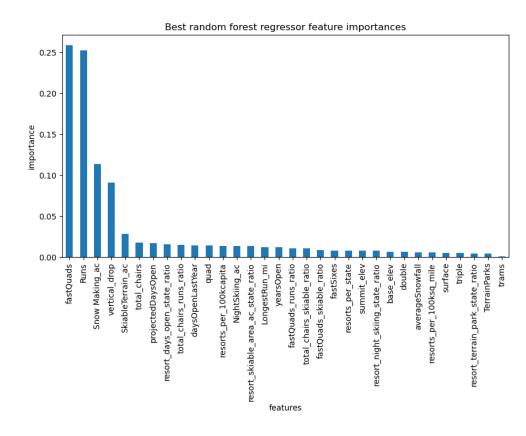
#### Results

Our model identified four main features:

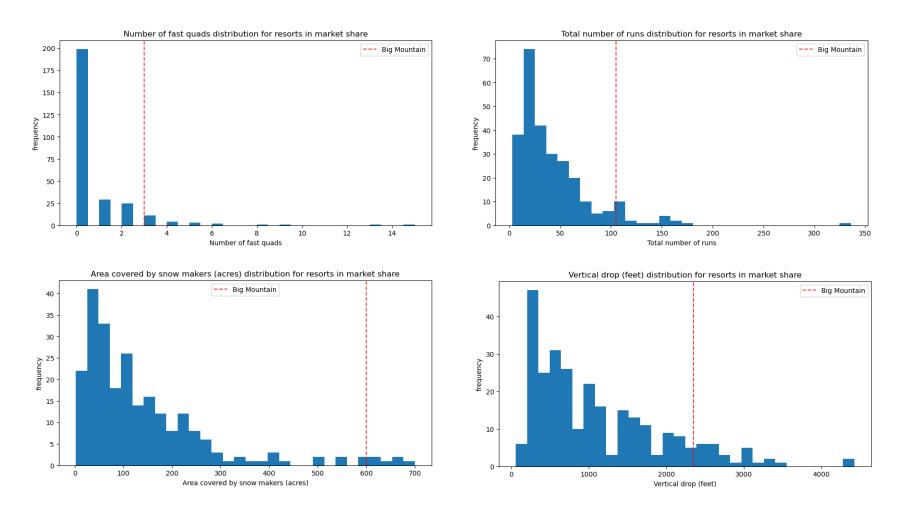
- Number of fast quads
- Total numbers of runs
- Snow making area
- Vertical drop

Current price: \$81

Suggested new price: \$96



### As far as the most important features are concerned, Big Mountain resort is in top 10-20% of all resorts in its market share



Therefore, nearly 20% increase in price is justified

## Modeling additional scenarios (cutting costs or increasing revenue)

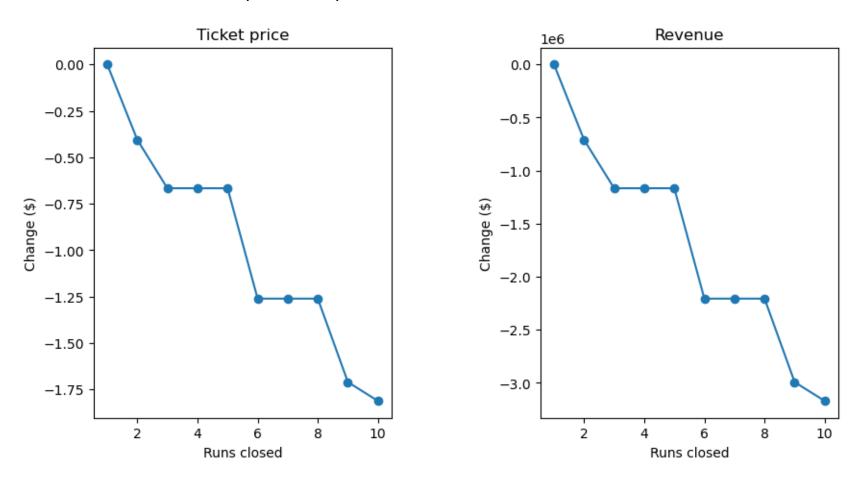
- 1. Permanently closing down up to 10 of the least used runs.
- 2. Increasing the vertical drop by adding a run to a point 150 feet lower down (would require the installation of an additional chair lift)
- 3. Same as number 2, but adding 2 acres of snow making coverage
- 4. Increasing the longest run by 0.2 mile (would require 4 acres of an additional snow making coverage)

#### **Assumptions:**

- Expected number of visitors per season is 350,000
- Average visitor skies for 5 days

### Scenario 1: Close down up to 10 of the least used runs

Predicted drop in ticket price and revenue calculated in terms of our model



Recommendation: Depends on how much can be saved by closing runs

### **Scenario 2:** Increase the vertical drop by adding a run to a point 150 feet lower down (extra chairlift required)

- Justifies increasing the price by \$2
- Would generate \$3.5M in extra revenue
- More than enough to cover additional operating costs (\$1.5M)

**Recommendation:** Do it!

# **Scenario 3:** Same as Scenario 2 but with 2 more acres of snow making coverage

Makes no difference compared to Scenario 2

**Recommendation:** Stick to Scenario 2

**Scenario 4:** Increase the longest run by 0.2 miles (4 more acres of snow making coverage required)

Makes no difference

Recommendation: Don't bother