



# INTRODUCTION



Provide views of Glacier National Park and Flathead National Forest

## PROBLEM STATEMENT



Additional chair lift installed recently



Additional operating cost increased by \$1.5 million



Better ticket pricing model for the ski resort



Identify facilities for future investments

### DATA WRANGLING

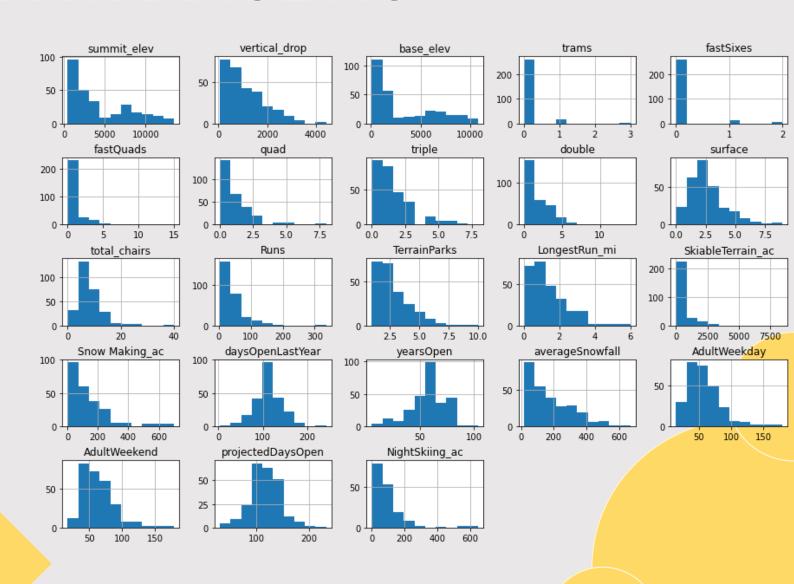
#### Data

- Format CSV
- •Rows Resort
- Columns Variables

Resorts: 330

Regions: 38

Primary target variable: ticket price



#### **EXPLORATORY DATA ANALYSIS**

Adult ticket price is positively correlated to:

Snow Making\_ac

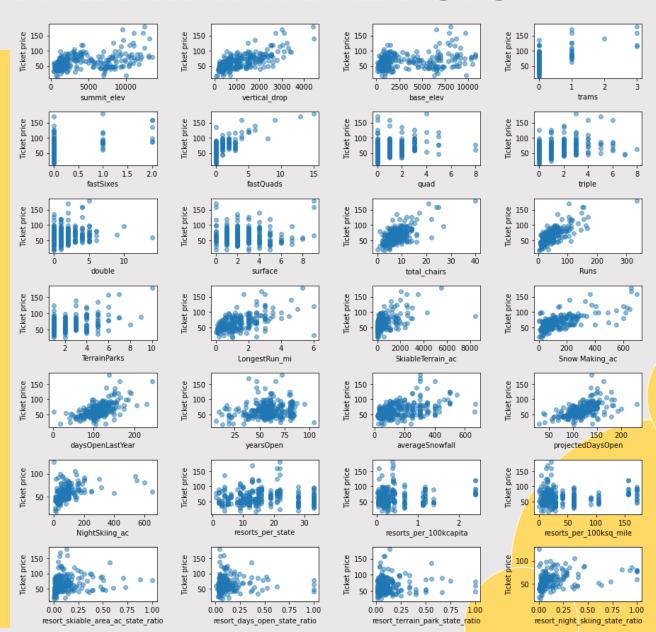
resort\_night\_skiing\_state\_ratio

fastQuads,

Runs

total\_chair

Vertical\_drop



#### MODELLING

Algorithms



Linear regression

63% variance

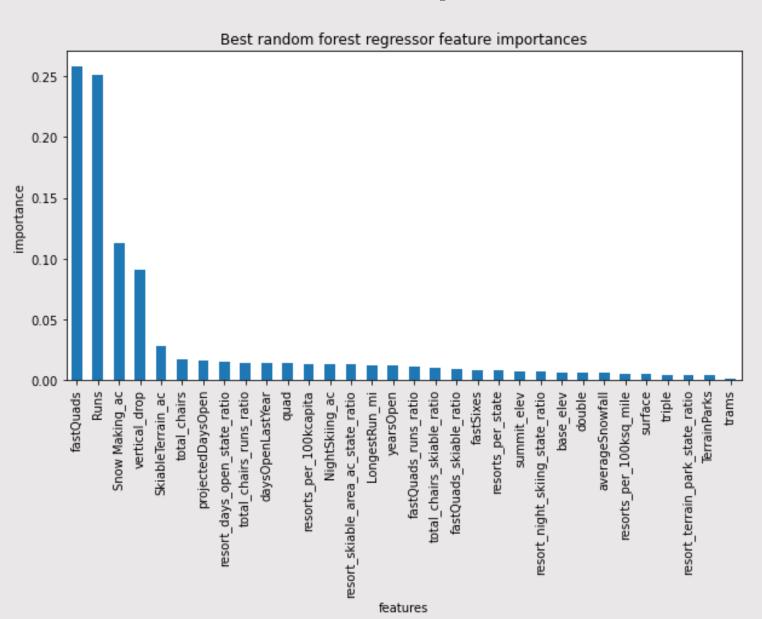
Random forests

69% variance

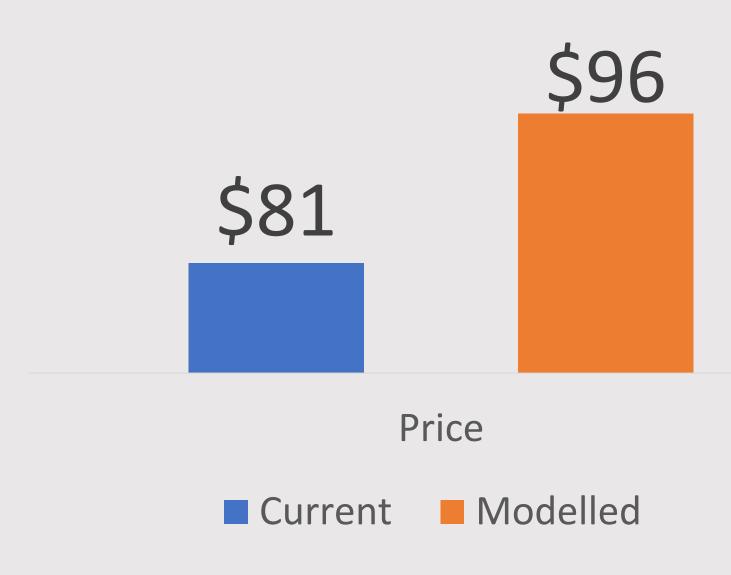


Model generated using random forest is better than linear regression model

# Feature importance



# Predicted ticket price



# Impact of closing runs on ticket price and revenue

