

# **Hotel Cancel Culture**

Predicting Reservation Cancellations

# Goal:

To identify the top and bottom 3 attributes to predict whether a reservation will cancel.

### **Recommendation Rationale:**

### Cancel or Check-Out?

What is the likelihood of a given reservation canceling?

### Pros and Cons

- Practical use for same-day decision-making
- Useful for forecasting future demand

### Guest Generalizations

Can we generalize certain attributes are more/less likely to cancel?

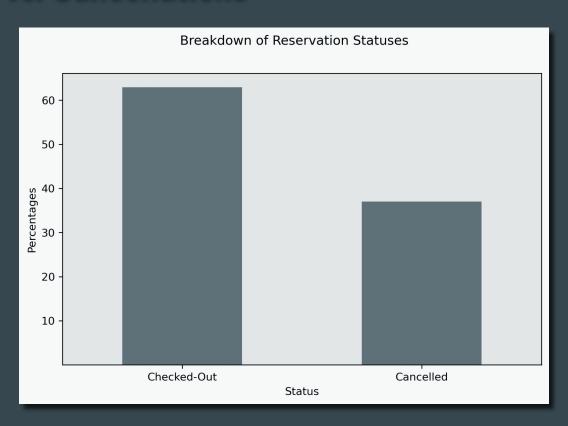
### Pros and Cons

- Simple/easily understood
- Less accurate vs. full analysis
- May lead to biases about guests

# Data Details

- Hotel reservation data from two European hotels
- Reservations from 2015 to 2017 including common reservation details
- Analyzed over 30 different reservation attributes

## **Checkouts vs. Cancellations**



Getting to Know Your Guests

## Cancellations are Most Likely When...

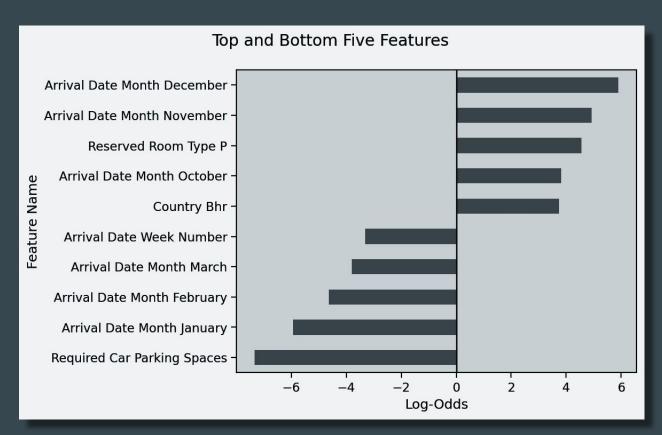
Feature #1	Feature #2	Feature #3
Details here	Details here	Details here

## Cancellations are Least Likely When...

Feature #1	Feature #2	Feature #3
Details here	Details here	Details here

## **Visualizing Results**

RESULTS HERE



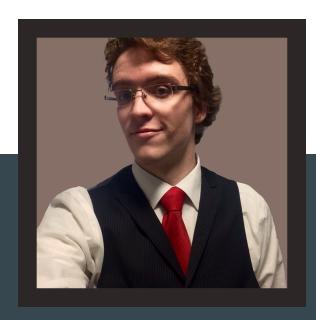
## Recommendations:

 Observation #1 Recommendation Observation #2 Recommendation #3 Recommendation Observation

# What's Next?

- Consider additional factors
  - Holidays, recurring local events
  - Sales/promotions
  - Group sales/events
- Forecasting cancellations
- Predicting and forecasting bookings by room type

### Thank You!



### Benjamin McCarty

Email: bmccarty505@gmail.com

Github: github.com/BenJMcCarty

LinkedIn: <a href="mailto:linkedin.com/in/bmccarty505">linkedIn: linkedin.com/in/bmccarty505</a>