

Predicting Cab Booking Cancellations

Problem Statement



Customers can cancel the booking up to the last minute of pick up at no cost to them

Cancelled booking dents the revenue of the company and adds operational overheads



Use the Data collected over time to predict the probability of booking cancellation

Problem Statement



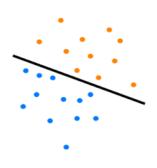


- Customers can cancel the booking up to the last minute of pick up at no cost to them
- Cancelled booking dents the revenue of the company and adds operational overheads
- Use the Data collected over time to predict the probability of booking cancellation



- The problem is of significant importance to any company in the ride sharing business as:
- ✓ It could help to streamline the operations
- ✓ It could help reduce the overheads and costs
- ✓ It could help the company make the best and most efficient use of its resources

Problem Analysis



Classification Task – Classify the Cancellation feature into :

√ '0' (Not Cancelled)

or

√ '1' (Cancelled)

Dataset



Training Data-

- ✓ 43 K records
- ✓ 18 Features



Uneven Classes

✓ Approx 7% of the total bookings are actually Cancelled(Training Data)

Source:- https://inclass.kaggle.com/c/predicting-cab-booking-cancellations/data

Features at a Glance

Features set includes:

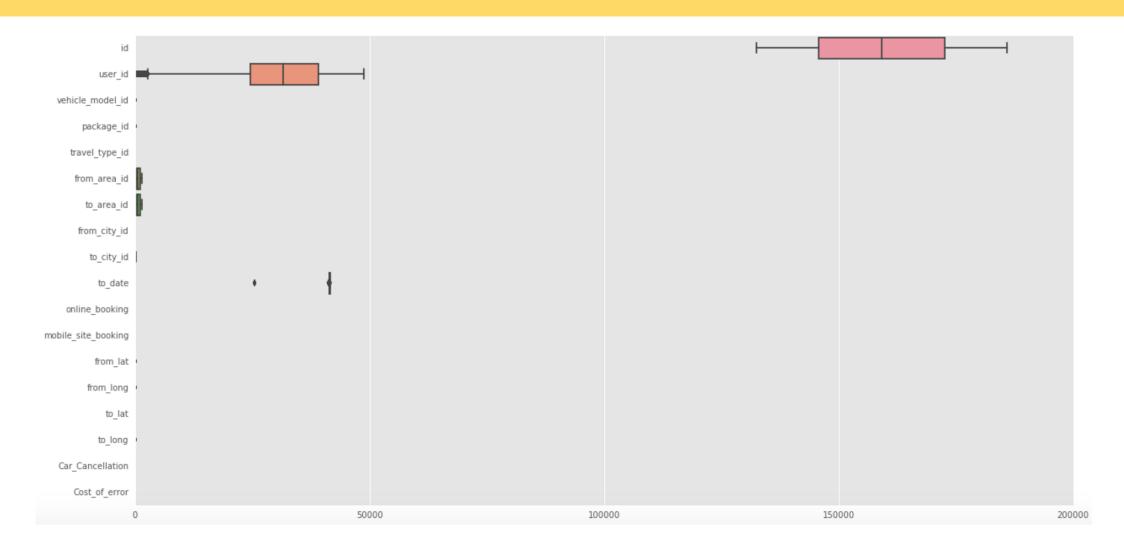


✓ Vehicle attributes



- ✓ Booking attributes including-
 - Online
 - > GPS data
 - Mobile
 - > Travel Type
 - Source
 - Destination

Features at a Glance(Contd..)



Hypothesis

The solution could be to make a Machine learning model that could achieve the following:

- ✓ A classification accuracy in the range of 60-90%
- ✓ To explain what are the most important features of the data set that drive this relationship