

# Capstone Project

→ Only Jupyter Notebook  
→ markdown  
→ code comment

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Submission Date: 24<sup>th</sup> Decemeber 2023 23:59

Submission Email Subject:

Capstone Project - YourCabs

# YOURCABS

→ ~~Uber, OLA, BLU~~

Radio taxi

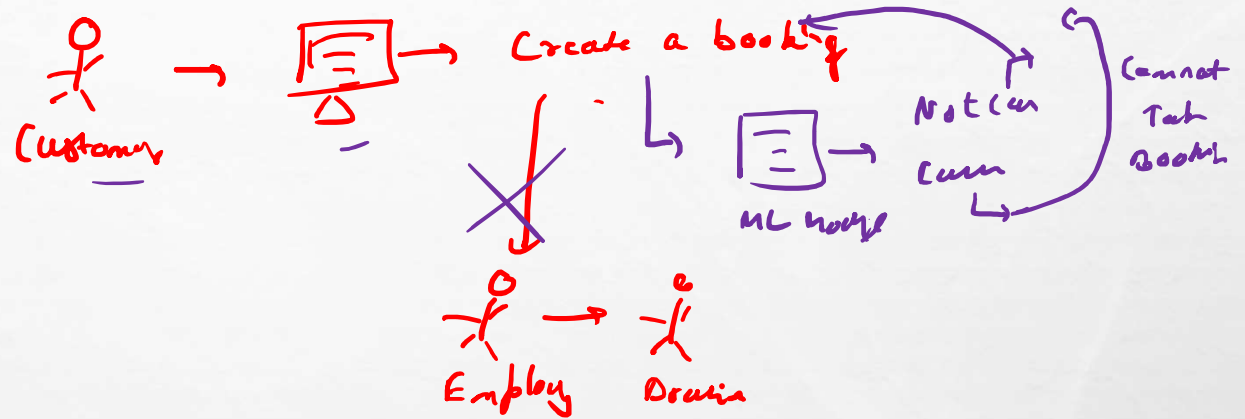
→ 2015 → Not an App-based service

The business problem tackled here is trying to improve customer service for YourCabs.com, a cab company in Bangalore.

1st Dec 7 AM 10th Dec 9 AM

The problem of interest is booking cancellations by the company due to unavailability of a car. The challenge is that cancellations can occur very close to the trip start time, thereby causing passengers inconvenience.

# YOURCABS



The goal of the competition is to create a predictive model for classifying new bookings as to whether they will eventually get cancelled due to car unavailability.

# YOURCABS

## Data Dictionary

- id - booking ID (*unique*)
  - user\_id - the ID of the customer (based on mobile number)
  - vehicle\_model\_id - vehicle model type. → *22, 384, 41*
  - package\_id - type of package (1=4hrs & 40kms, 2=8hrs & 80kms, 3=6hrs & 60kms, 4= 10hrs & 100kms, 5=5hrs & 50kms, 6=3hrs & 30kms, 7=12hrs & 120kms) *Intercity X A → B A✓ X*
  - travel\_type\_id - type of travel (1=long distance, 2= point to point, 3= hourly rental). *X long dis → X P-P*
  - from\_area\_id - unique identifier of area. Applicable only for point-to-point travel and packages → *Pincode, Pichay*
  - to\_area\_id - unique identifier of area. Applicable only for point-to-point travel → *Prem - Dobb*
  - from\_city\_id - unique identifier of city ✓
  - to\_city\_id - unique identifier of city (only for intercity) ✓
  - from\_date - time stamp of requested trip start
  - online\_booking - if booking was done on desktop website → *0/1 - 0 } → Phone Call*
  - mobile\_site\_booking - if booking was done on mobile website → *0/1 - 0*
  - booking\_created - time stamp of booking ✓
  - from\_lat - latitude of from area ←
  - from\_long - longitude of from area ←
  - to\_lat - latitude of to area ←
  - to\_long - longitude of to area ←
  - Car\_Cancellation - whether the booking was cancelled (1) or not (0) due to unavailability of a car. ✓
- fixed GPS coord. given Area Id*