Airline Passenger Satisfaction Analysis

JingYun (Jonna) Wang 04/06/2021

Business **Problem** 02

Data & Methods 03

Results

Model **Evaluation** 05

Conclusion & Recommendation Work

06

Future

Business Goal



Satisfaction



Critical Features



Targeting

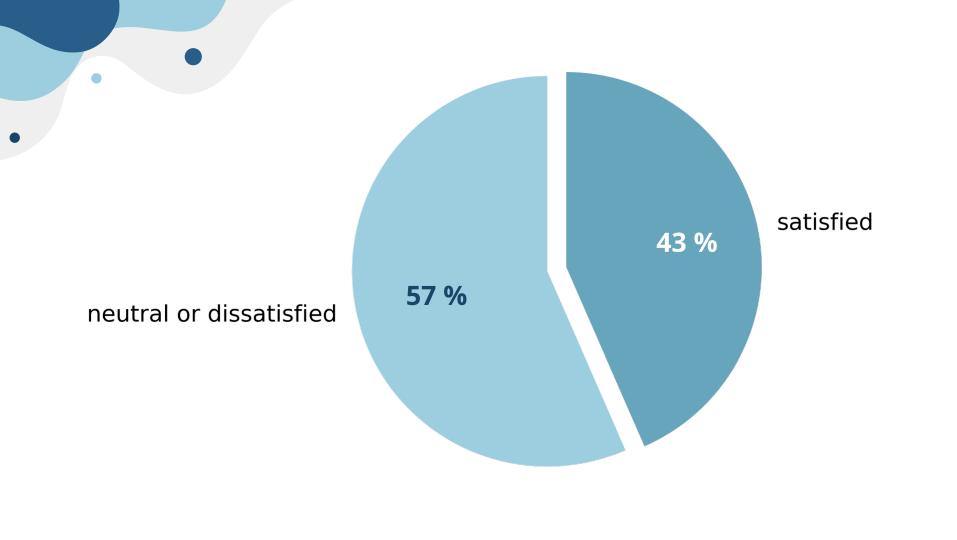
Data and Methods

- 130k customers satisfaction data
- Classification Modeling
- Train-Test Split

Q1

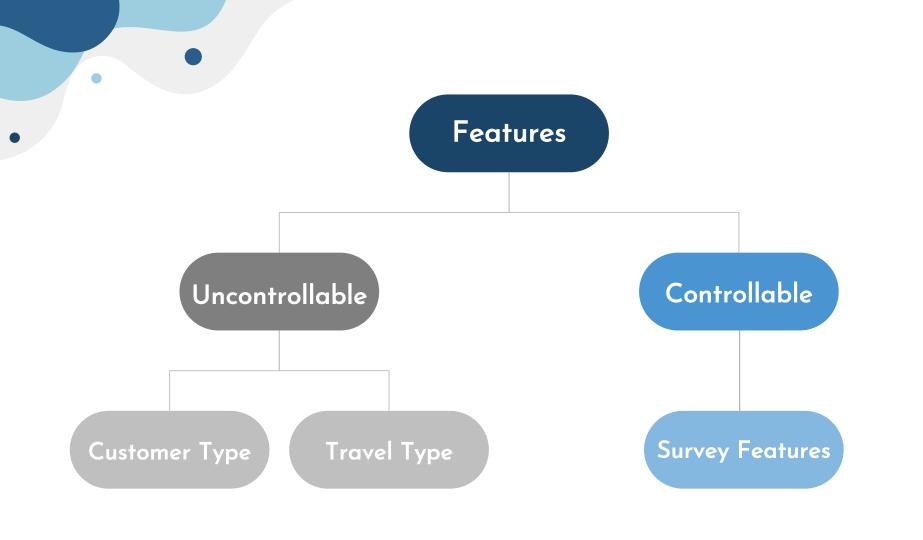
What is the satisfaction and dissatisfaction rate?

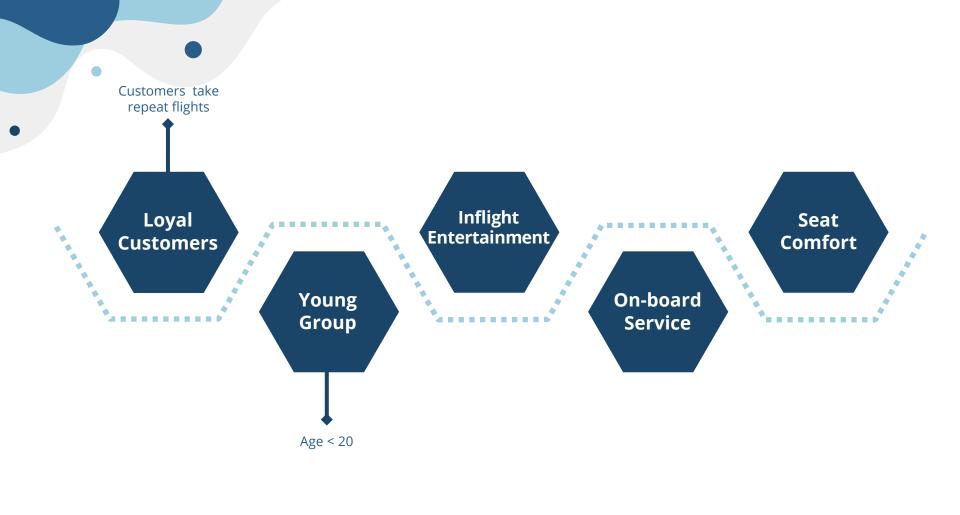




Q2

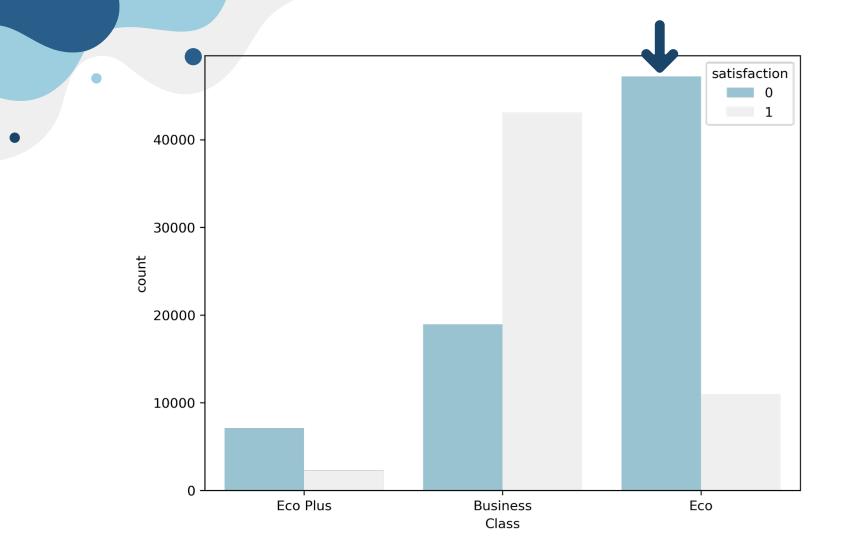
What are the critical features that have a stronger impact on satisfaction?





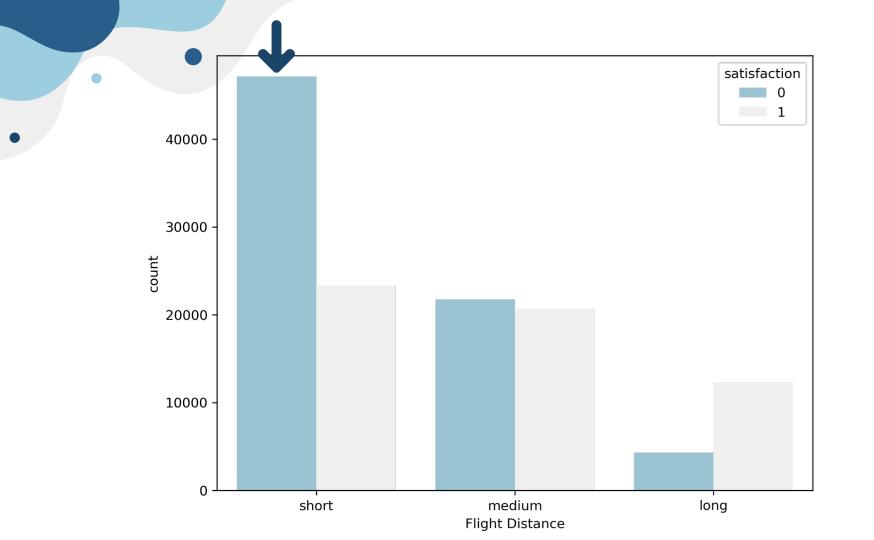
Q3

Which class, flight haul and age group have the highest dissatisfaction rate?



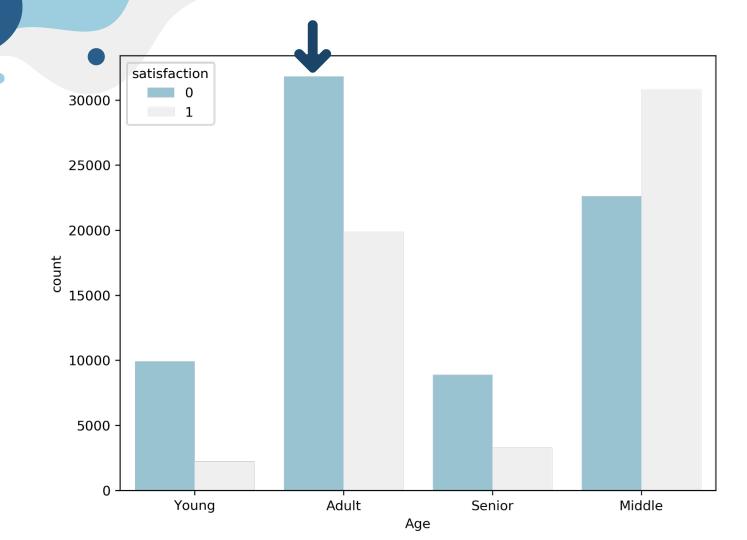
Eco Class





Short Haul





Adult (age 20~40)



Common Features

Inflight Wifi

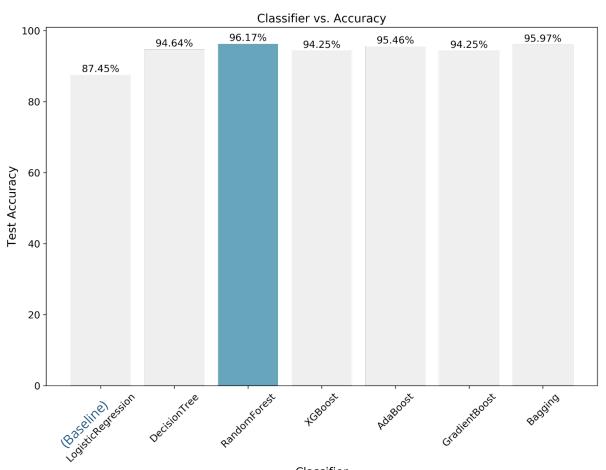


Online Booking

Gate Location

Online Boarding

Model Evaluation



Classifier

Conclusion & Recommendation

- Random Forest Classifier
- Critical features
 - Uncontrollable (loyal customers, young group)
 - ✓ **Controllable** (inflight entertainment, on-board service, seat comfort)
- Survey features needs improvement
 - ☐ Collaboration (gate location)
 - ☐ **Technology** (wifi, online booking, online boarding)

Future Work







Customer Service



Competitive Airline



THANK YOU!



jingyunwang24@gmail.com

CREDITS: This presentation template was created by **Slidesgo**, including icons by **Flaticon**, infographics & images by **Freepik**

Please keep this slide for attribution